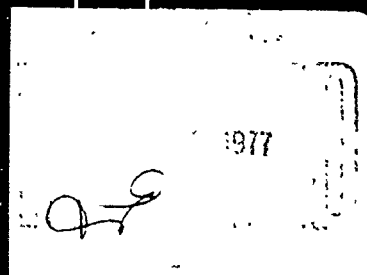


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6 SUBACUTE TOXICITY OF RDX
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SUBACUTE TOXICITY OF RDX AND TNT IN DOGS

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TABLE OF CONTENTS

| | <u>Page No.</u> |
|--|-----------------|
| I. SUMMARY ----- | 1 |
| II. OBJECTIVE ----- | 2 |
| III. MATERIALS ----- | 2 |
| IV. METHODOLOGY ----- | 2 |
| A. Animals and Husbandry ----- | 2 |
| B. Group Assignments ----- | 3 |
| C. Diet Preparation and Administration ----- | 3 |
| D. Observations ----- | 4 |
| E. Laboratory Diagnostic Procedures ----- | 5 |
| F. Termination ----- | 5 |
| V. RESULTS ----- | 6 |
| A. Observations ----- | 6 |
| B. Laboratory Diagnostic Procedures ----- | 7 |
| C. Pathology ----- | 7 |
| VI. CONCLUSIONS ----- | 8 |
| VII. APPENDIX | |
| Table 1: Body Weight ----- | A-1 |
| Table 2: Hematology - Cytology ----- | A-6 |
| Table 3: Hematology - Heinz Bodies ----- | A-34 |
| Table 4: Hematology - Red Cell Fragility ----- | A-37 |
| Table 5: Blood Biochemistry ----- | A-65 |



BIONICS

TABLE OF CONTENTS (cont'd)

| | <u>Page No.</u> |
|--|-----------------|
| VII. APPENDIX (cont'd) | |
| Table 6: Sulfobromophthalein, U.S.P., Dye Clearance Test (BSP) --- | A-93 |
| Table 7: Methemoglobin ----- | A-96 |
| Table 8: Urinalysis ----- | A-99 |
| Pathology Summary ----- | A-169 |
| Summary of Microscopic Lesions ----- | A-170 |
| Pathology Reports, Individual Animals ----- | A-171 |



SPONSOR: Office of Naval Research

DATE: July 19, 1974

MATERIAL: Cyclonite (RDX)
Trinitrotoluene (TNT)

SUBJECT: FINAL REPORT
Subacute Toxicity of RDX and TNT in Dogs
LBI Project No. 1399
Contract No. N00014-73-C-0162 Mod. #1

I. SUMMARY

Dogs given daily dosages of RDX of 0.1, 1 or 10 mg/kg/day for 90 days developed no signs of toxicity other than temporary episodes of emesis to which a tolerance apparently developed. One medium level animal died for reasons unrelated to the study.

Dogs given daily dosages of TNT of 0.02, 0.1 or 1 mg/kg/day for 90 days developed no signs of toxicity other than temporary episodes of emesis to which tolerance apparently developed.

Laboratory diagnostic procedures and both gross and microscopic postmortem examinations revealed no important differences from controls.



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II. OBJECTIVE

The objective of this study was to evaluate and characterize the toxicity of RDX and TNT when given to dogs by repeated oral administration over a 90-day period.

III. MATERIALS

RDX is the common designation for an explosive also known as Cyclonite. It bears the chemical name hexahydro-1,3,5-trinitro-s-triazine. It was supplied to Litton Bionetics for this study in the form of a pre-mix with ground dog chow containing 20 mg RDX/gm chow. The pre-mix was received at Litton Bionetics on July 3, 1973, and assigned LBI No. 698A.

TNT is the common designation for an explosive which is known chemically as trinitrotoluene. It was supplied to Litton Bionetics for this study in the form of a pre-mix with ground dog chow containing 2 mg TNT/gm chow. The pre-mix was received at Litton Bionetics on July 3, 1973, and assigned LBI No. 697A.

IV. METHODOLOGY

A. Animals and Husbandry

Forty-two (42) healthy, young, adult, purebred beagle dogs, 21 males and 21 females, were obtained from Hazleton Research Animals. They were examined by a staff veterinarian on receipt and housed in individual stainless steel cages, provided with fresh water several times daily and fed Wayne Dog Food in the form of ground meal. This same food is available in pelleted form, but the ground form was utilized in this study to facilitate admixture of the test material.

The dogs were held in quarantine in order to assure their good health and to allow incubation of any diseases which might have been present at the time



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of receipt. Two sets of clinical laboratory studies were performed. These had the double purpose of demonstrating good health and of providing baseline values for comparative purposes.

B. Group Assignments

Near the end of the quarantine period, the dogs were assigned to the various treatment groups with attention to accomplishing groups balanced with respect to sex and body weight. Final assignments were as follows:

| <u>Group No.</u> | <u>Treatment Level</u> | <u>Dog No. and Sex</u> | |
|------------------|-------------------------------|------------------------|---------------|
| | | <u>Male</u> | <u>Female</u> |
| 1 | Control | 65 | 37 |
| | | 66 | 43 |
| | | 72 | 45 |
| 2 | RDX-High (10 mg/kg/day) | 55 | 49 |
| | | 73 | 50 |
| | | 74 | 76 |
| 3 | RDX Medium (1 mg/kg/day) | 64 | 40 |
| | | 68 | 41 |
| | | 75 | 54 |
| 4 | RDX-Low (0.1 mg/kg/day) | 59 | 35 |
| | | 61 | 36 |
| | | 67 | 53 |
| 5 | TNT-High (1 mg/kg/day) | 69 | 46 |
| | | 70 | 47 |
| | | 71 | 48 |
| 6 | TNT-Medium (0.1 mg/kg/day) | 60 | 42 |
| | | 62 | 38 |
| | | 63 | 52 |
| 7 | TNT-Low (0.02 mg/kg/day) | 56 | 39 |
| | | 57 | 44 |
| | | 58 | 51 |

C. Diet Preparation and Administration

Preliminary trials in the sponsor's laboratory had indicated that diets containing the planned concentrations of RDX and TNT were not readily accepted by dogs. After much consideration of various alternatives, the following procedure



was agreed upon. Diluted chow mixes were prepared according to the sponsor's directions as follows:

| <u>Schedule</u> | <u>Compound</u> | <u>Pre-Mix</u> gm | <u>Chow</u> gm | <u>Final Conc.</u> mg/gm./chow | <u>Animal</u> <u>Group No.</u> |
|-----------------|-----------------|----------------------|-------------------|-----------------------------------|-----------------------------------|
| A | RDX | Undiluted | | 20.0 | 2 |
| B | RDX | 400 | 3600 | 2.0 | 3 |
| C | RDX | 40 | 3960 | 0.2 | 4 |
| D | TNT | Undiluted | | 2.0 | 5 |
| E | TNT | 400 | 3600 | 0.2 | 6 |
| F | TNT | 80 | 3920 | 0.04 | 7 |

Each day a food mixture was prepared for each individual dog. This mixture contained 0.5 gm of the appropriate diluted chow mix (see above) per kilogram of body weight and about 60 grams of a commercial (meat containing) canned dog food. The control group was given normal ground dog chow handled in the same way. After this had been consumed by the dog, dog chow was provided ad libitum for the remainder of the working day. Uneaten chow was removed at the end of normal working hours so that appetite would be good the following morning. Records were kept of test material consumed daily. Water was available at all times.

D. Observations

Each dog was observed at least once daily at the time of feeding or more often if indicated. Records were made of any deviations from normal with respect to appearance, behavior, appetite and elimination. Signs of toxic or pharmacologic effects were also recorded daily or more often. Each animal was weighed weekly.



All dogs were examined by a consultant veterinary ophthalmologist prior to group assignments and again during the 13th week of the study.

E. Laboratory Diagnostic Procedures

The following studies were performed on each animal twice during the quarantine period and again during the 4th, 8th and terminal weeks of the study.

1. Hematology

| | |
|-------------------|-------------------------------------|
| hematocrit | total leucocyte count |
| hemoglobin | differential leucocyte count |
| erythrocyte count | reticulocyte count and Heinz bodies |
| | RBC fragility |

2. Clinical Biochemistry

| | |
|-----------------------|---|
| fasting blood sugar | serum chloride |
| blood urea nitrogen | serum glutamic-pyruvic transaminase |
| total serum protein | methemoglobin |
| total serum bilirubin | serum alkaline phosphatase |
| serum sodium | serum glutamic-oxaloacetic transaminase |
| serum potassium | sulfobromophthalein liver function test |

3. Urinalysis

| | |
|------------------|---|
| pH | total protein |
| specific gravity | bilirubin |
| glucose | microscopic examination of sediment |
| ketones | urine glutamic-oxaloacetic transaminase |

F. Termination

At the scheduled time for termination, the dogs were transferred to the Kensington facility of Litton Bionetics where superior facilities for necropsy exist. Each animal was killed and immediately subjected to a gross necropsy under the direction of a Board-Certified Veterinary Pathologist.

The following organs were removed and individually weighed:

| | |
|----------|------------------------|
| heart | adrenals |
| kidneys | spleen |
| liver | testes with epididymis |
| thyroids | |



Samples of the following tissues were taken for preservation in 10% neutral buffered formalin:

| | | |
|----------------------|-----------------------|---------------------|
| brain | gallbladder | urinary bladder |
| pituitary | spleen | prostate |
| thoracic spinal cord | kidneys | ovary |
| eye | adrenals | uterus |
| thyroids | stomach | rib junction |
| lung | pancreas | bone marrow |
| heart | small intestine | nerve with muscle |
| liver | mesenteric lymph node | any unusual lesions |

Approximately 12 selected tissues from each animal in the control and the high dosage groups for each compound were prepared and examined for histopathologic alteration:

| | | |
|---------|----------|-----------------|
| brain | liver | stomach |
| thyroid | spleen | small intestine |
| lung | kidney | bone marrow |
| heart | adrenals | lesions |

V. RESULTS

A. Observations

During the first two weeks, there were scattered instances of nausea and vomiting. No single dog was affected for more than a few days and the whole matter subsided.

One dog (No. 75, male, medium level RDX) died during the fourth week. At necropsy, a lesion was found, located subcutaneously in the left flank. It was necrotic and crepitant and appeared to have originated as an abscess. There were numerous focal hemorrhages. It was the opinion of the examining pathologist that this dog died of a bacteremia derived from the lesion mentioned and unrelated to the RDX treatment.

Except for this one dog and the few emesis episodes mentioned, there were no toxic signs recorded nor were there changes in body weight beyond the expected fluctuations.



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Ophthalmoscopic examination by Dr. Seth A. Koch, a board-certified veterinary ophthalmologist, revealed no changes attributable to treatment except "some increased granularity and mild hyper-reflectivity of the fundus" in high dosage groups of both RDX and TNT. This could indicate a mild inflammatory retinopathy but is not considered evidence of important toxicity.

B. Laboratory Diagnostic Procedures

There were no important changes in any of the blood cytology chemistry measures. There are low values among the blood chemistry determinations at the eight-week point, but these occurred in control animals as well as in treated ones. Thus, they probably represent laboratory variants rather than toxic effects. Similarly, urinalysis failed to reveal abnormalities.

C. Pathology

Necropsies conducted under the supervision of Walter F. Loeb, V.M.D., Ph.D., revealed nothing remarkable. The occasional abnormalities are itemized in the individual report sheets in the Appendix. Organ weights are also recorded.

The incidence of microscopic findings is tabulated as part of the signed summary also incorporated in the Appendix. It seems clear that no important toxic effects were observed. Renal microcalculi and bone marrow hemosiderosis are both encountered occasionally in random dog populations. The small group sizes, three per sex per dosage group, make it precarious to attribute importance to the incidences seen in this study.



VI. CONCLUSIONS

Dogs given daily dosages of RDX of 0.1, 1 or 10 mg/kg/day for 90 days developed no signs of toxicity other than temporary episodes of emesis to which a tolerance apparently developed. One medium level animal died for reasons unrelated to the study.

Dogs given daily dosages of TNT of 0.02, 0.1 or 1 mg/kg/day for 90 days developed no signs of toxicity other than temporary episodes of emesis to which tolerance apparently developed.

Laboratory diagnostic procedures and both gross and microscopic post-mortem examinations revealed no important differences from controls.

Submitted by: 

E. ROSS HART, Ph.D.

Director, Department of
Pharmacology and Toxicology

ERH:pp



BIONETICS

LITTON BIONETICS, INC.

TABLE 1

BODY WEIGHT
(kilograms)

| DOG NO. AND SEX | PRE- DRUG | WEEKS OF DRUG ADMINISTRATION | | | | | | | | | | | | | TERM- | |
|--------------------|--------------|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | INAL | |
| <u>CONTROL</u> | | | | | | | | | | | | | | | | |
| 65 (M) | 7.9 | 8.1 | 7.8 | 8.1 | 7.8 | 8.2 | 7.8 | 7.6 | 8.0 | 8.0 | 7.8 | 7.4 | 7.8 | 8.0 | 8.0 | |
| 66 (M) | 8.5 | 8.7 | 8.6 | 8.8 | 8.9 | 8.4 | 8.4 | 9.0 | 8.9 | 8.6 | 8.8 | 8.4 | 8.5 | 8.6 | 8.6 | |
| 72 (M) | 8.2 | 8.5 | 8.2 | 8.5 | 8.5 | 8.8 | 8.8 | 8.4 | 8.6 | 8.2 | 8.2 | 8.4 | 8.3 | 8.0 | 8.0 | |
| MEAN | 8.2 | 8.4 | 8.2 | 8.5 | 8.4 | 8.5 | 8.3 | 8.4 | 8.5 | 8.3 | 8.3 | 8.1 | 8.2 | 8.2 | 8.2 | |
| 37 (F) | 8.1 | 8.2 | 7.9 | 8.2 | 7.8 | 8.4 | 8.4 | 8.2 | 8.2 | 8.4 | 7.6 | 7.6 | 7.8 | 7.8 | 7.8 | |
| 43 (F) | 7.5 | 7.8 | 7.4 | 7.7 | 7.8 | 8.6 | 8.6 | 8.2 | 8.4 | 8.2 | 8.0 | 7.8 | 7.6 | 7.8 | 7.8 | |
| 45 (F) | 8.7 | 8.4 | 8.1 | 8.6 | 8.5 | 8.6 | 8.6 | 8.8 | 9.4 | 8.6 | 8.4 | 8.2 | 8.4 | 8.6 | 8.6 | |
| MEAN | 8.1 | 8.1 | 7.8 | 8.2 | 8.0 | 8.5 | 8.5 | 8.4 | 8.7 | 8.4 | 8.0 | 7.9 | 7.9 | 8.1 | 8.1 | |

TABLE 1 (continued)

BODY WEIGHT
(kilograms)

| DOG NO. ANT SEX | PRE- DRUG | WEEKS OF DRUG ADMINISTRATION | | | | | | | | | | | | | TERM- | |
|-----------------------|--------------|------------------------------|------|------|------|------|-----|------|-----|------|------|------|------|------|-------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | INAL | |
| <u>RDX - 10 mg/kg</u> | | | | | | | | | | | | | | | | |
| 55 (M) | 10.7 | 9.6 | 9.2 | 9.8 | 10.2 | 9.6 | 9.6 | 10.4 | 9.2 | 9.8 | 10.2 | 9.8 | 10.0 | 10.6 | 10.6 | |
| 73 (M) | 10.6 | 9.8 | 10.0 | 10.1 | 10.4 | 10.0 | 9.0 | 10.6 | 9.2 | 10.6 | 10.8 | 10.6 | 10.5 | 10.4 | 10.4 | |
| 74 (M) | 9.3 | 8.6 | 8.6 | 8.9 | 9.4 | 8.8 | 8.8 | 9.2 | 9.6 | 9.6 | 10.2 | 9.6 | 9.9 | 10.4 | 10.4 | |
| MEAN | 10.4 | 9.3 | 9.3 | 9.6 | 10.0 | 9.5 | 9.1 | 10.1 | 9.3 | 10.0 | 10.4 | 10.0 | 10.1 | 10.5 | 10.5 | |
| 49 (F) | 8.7 | 8.8 | 8.3 | 8.6 | 8.7 | 8.8 | 8.8 | 8.6 | 8.6 | 8.6 | 8.2 | 8.6 | 8.4 | 8.8 | 8.8 | |
| 50 (F) | 7.8 | 7.2 | 6.9 | 7.2 | 7.2 | 6.5 | 6.5 | 7.2 | 6.8 | 7.4 | 7.4 | 7.4 | 7.5 | 7.4 | 7.4 | |
| 76 (F) | 8.6 | 8.2 | 7.7 | 7.4 | 8.1 | 8.4 | 8.4 | 8.2 | 8.0 | 7.4 | 8.2 | 8.0 | 8.2 | 8.2 | 8.2 | |
| MEAN | 8.4 | 8.1 | 7.6 | 7.7 | 8.0 | 7.9 | 7.9 | 8.0 | 7.8 | 7.8 | 7.9 | 8.0 | 8.0 | 8.1 | 8.1 | |
| <u>KDX - 1 mg/kg</u> | | | | | | | | | | | | | | | | |
| 64 (M) | 9.2 | 8.9 | 8.8 | 8.9 | 8.6 | 8.4 | 8.4 | 8.6 | 8.6 | 8.4 | 8.8 | 7.8 | 8.3 | 7.4 | 7.4 | |
| 68 (M) | 8.2 | 9.6 | 9.8 | 9.9 | 9.7 | 9.8 | 9.8 | 9.8 | 9.4 | 10.2 | 10.2 | 10.0 | 9.9 | 8.6 | 8.6 | |
| 75 (M) | 12.2 | 11.8 | 11.6 | 11.9 | Dead | | | | | | | | | | | |
| MEAN | 9.9 | 10.1 | 10.1 | 10.2 | 9.2 | 9.1 | 9.1 | 9.2 | 9.0 | 9.3 | 9.5 | 8.9 | 9.1 | 8.0 | 8.0 | |
| 40 (F) | 9.4 | 9.3 | 9.0 | 9.7 | 8.8 | 9.2 | 9.2 | 9.0 | 9.0 | 9.0 | 8.8 | 8.4 | 8.6 | 8.6 | 8.6 | |
| 41 (F) | 9.9 | 9.5 | 9.1 | 9.2 | 8.4 | 9.0 | 9.0 | 9.0 | 9.0 | 8.8 | 9.0 | 8.8 | 8.8 | 8.8 | 8.8 | |
| 54 (F) | 7.1 | 7.0 | 6.8 | 7.6 | 6.6 | 7.2 | 7.2 | 7.4 | 7.2 | 7.4 | 7.2 | 7.2 | 7.6 | 8.2 | 8.2 | |
| MEAN | 8.8 | 8.6 | 8.3 | 8.8 | 7.9 | 8.5 | 8.5 | 8.5 | 8.4 | 8.4 | 8.3 | 8.1 | 8.3 | 8.5 | 8.5 | |

LITTON BIONETICS, INC.

TABLE 1 (continued)

BODY WEIGHT
(kilograms)

| DOG NO. AND SEX | PRE- DRUG | WEEKS OF DRUG ADMINISTRATION | | | | | | | | | | | | | TERM- | |
|--------------------|--------------|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | INAL | |
| | | RDX - 0.1 mg/kg | | | | | | | | | | | | | | |
| 59 (M) | 9.4 | 8.7 | 9.0 | 9.2 | 8.5 | 8.5 | 8.6 | 8.8 | 8.8 | 8.8 | 9.2 | 8.4 | 8.6 | 9.3 | 9.3 | |
| 61 (M) | 9.4 | 9.4 | 9.3 | 9.4 | 9.5 | 9.5 | 9.4 | 9.0 | 9.8 | 9.8 | 9.4 | 9.2 | 9.1 | 9.0 | 9.0 | |
| 67 (M) | 7.7 | 7.9 | 7.5 | 7.7 | 7.6 | 7.6 | 7.6 | 7.8 | 7.8 | 7.8 | 8.0 | 7.8 | 7.8 | 7.6 | 7.6 | |
| MEAN | 8.8 | 8.7 | 8.6 | 8.8 | 8.5 | 8.5 | 8.5 | 8.5 | 8.8 | 8.8 | 8.9 | 8.5 | 8.5 | 8.6 | 8.6 | |
| 35 (F) | 8.9 | 8.7 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.0 | 8.0 | |
| 36 (F) | 9.6 | 9.6 | 8.9 | 9.0 | 8.5 | 8.8 | 8.4 | 9.0 | 8.6 | 9.2 | 9.2 | 8.6 | 8.9 | 9.4 | 9.4 | |
| 53 (F) | 6.1 | 6.2 | 5.9 | 6.4 | 6.4 | 6.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.4 | 6.0 | 6.4 | 6.4 | 6.4 | |
| MEAN | 8.2 | 8.2 | 7.7 | 7.9 | 7.9 | 7.9 | 7.7 | 7.7 | 7.7 | 7.7 | 7.9 | 7.6 | 7.8 | 7.9 | 7.9 | |

LITTON BIONETICS, INC.

TABLE 1 (continued)

BODY WEIGHT
(kilograms)

| DOG NO. AND SEX | PRE- DRUG | WEEKS OF DRUG ADMINISTRATION | | | | | | | | | | | | | TERM- | |
|--------------------|--------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | INAL | |
| | | TNT - 1 mg/kg | | | | | | | | | | | | | | |
| 69 (M) | 9.7 | 10.0 | 9.8 | 9.4 | 10.4 | 9.8 | 9.8 | 10.4 | 10.4 | 10.4 | 10.4 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 70 (M) | 10.2 | 10.3 | 10.1 | 10.5 | 10.3 | 10.2 | 10.2 | 10.2 | 10.6 | 10.2 | 10.6 | 10.2 | 10.0 | 9.8 | 9.8 | 9.8 |
| 71 (M) | 11.5 | 11.5 | 11.5 | 11.6 | 11.4 | 11.2 | 11.2 | 11.6 | 11.0 | 11.0 | 11.0 | 10.4 | 11.2 | 10.8 | 10.8 | 10.8 |
| MEAN | 10.5 | 10.6 | 10.5 | 10.5 | 10.7 | 10.4 | 10.4 | 10.7 | 10.7 | 10.5 | 10.7 | 10.3 | 10.5 | 10.3 | 10.3 | 10.3 |
| 46 (F) | 7.4 | 7.4 | 7.2 | 7.6 | 7.4 | 7.2 | 7.2 | 8.0 | 7.6 | 7.2 | 7.2 | 7.2 | 7.2 | 7.4 | 7.4 | 7.4 |
| 47 (F) | 9.4 | 9.3 | 9.1 | 9.3 | 9.6 | 9.0 | 9.0 | 9.6 | 9.8 | 9.0 | 8.8 | 9.0 | 8.5 | 8.8 | 8.8 | 8.8 |
| 48 (F) | 9.6 | 9.4 | 9.2 | 9.5 | 9.5 | 9.5 | 9.5 | 10.2 | 10.0 | 9.6 | 9.4 | 9.6 | 9.8 | 9.8 | 9.8 | 9.8 |
| MEAN | 8.8 | 8.7 | 8.5 | 8.8 | 8.8 | 8.6 | 8.6 | 9.3 | 9.1 | 8.6 | 8.5 | 8.6 | 8.5 | 8.7 | 8.7 | 8.7 |
| TNT - 0.1 mg/kg | | | | | | | | | | | | | | | | |
| 60 (M) | 10.5 | 10.3 | 10.4 | 9.7 | 10.3 | 9.2 | 9.2 | 10.2 | 9.0 | 10.0 | 10.2 | 9.8 | 9.8 | 10.0 | 10.0 | 10.0 |
| 62 (M) | 12.6 | 12.9 | 12.6 | 13.0 | 12.5 | 12.4 | 12.4 | 12.8 | 12.6 | 12.6 | 12.6 | 12.2 | 12.1 | 12.8 | 12.8 | 12.8 |
| 63 (M) | 3.8 | 9.1 | 8.9 | 9.4 | 8.9 | 8.4 | 8.4 | 9.2 | 8.8 | 8.8 | 8.8 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| MEAN | 10.6 | 10.8 | 10.6 | 10.7 | 10.6 | 10.0 | 10.0 | 10.7 | 10.1 | 10.5 | 10.5 | 10.3 | 10.3 | 10.6 | 10.6 | 10.6 |
| 42 (F) | 8.0 | 8.1 | 8.0 | 8.5 | 8.3 | 8.4 | 8.4 | 8.4 | 8.4 | 8.2 | 8.4 | 7.8 | 7.9 | 8.2 | 8.2 | 8.2 |
| 38 (F) | 8.0 | 7.9 | 7.6 | 7.8 | 7.2 | 7.2 | 7.2 | 7.4 | 7.4 | 7.4 | 7.6 | 7.6 | 7.2 | 7.4 | 7.4 | 7.4 |
| 52 (F) | 8.7 | 8.8 | 8.6 | 9.1 | 8.8 | 8.5 | 8.6 | 9.0 | 9.2 | 9.0 | 9.4 | 9.0 | 9.2 | 9.6 | 9.6 | 9.6 |
| MEAN | 8.2 | 8.3 | 8.1 | 8.5 | 8.1 | 8.0 | 8.1 | 8.3 | 8.3 | 8.2 | 8.5 | 8.1 | 8.1 | 8.4 | 8.4 | 8.4 |

LITTON BIONETICS, INC.

TABLE 2

HEMATOLOGY - CYTOLOGY

CONTROL

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| | | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 65 (M) | 8.17 | 1.2 | 46.0 | 16.4 | 10.5 | 0 | 0 | 0 | 64 | 29 | 4 | 1 | 0 | 2 | |
| 66 (M) | 9.86 | 1.4 | 56.5 | 19.7 | 9.4 | 0 | 0 | 1 | 59 | 36 | 3 | 1 | 0 | 0 | |
| 72 (M) | 8.74 | 1.0 | 49.5 | 17.1 | 7.4 | 0 | 0 | 0 | 67 | 29 | 2 | 2 | 0 | 0 | |
| MEAN | 8.92 | 1.2 | 50.5 | 17.7 | 9.1 | | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 65 (M) | 7.85 | 4.2 | 45.5 | 16.0 | 13.0 | 0 | 0 | 0 | 72 | 23 | 3 | 2 | 0 | 0 | |
| 66 (M) | 9.26 | 3.0 | 5.5 | 19.7 | 10.7 | 0 | 0 | 0 | 58 | 36 | 4 | 2 | 0 | 0 | |
| 72 (M) | 7.62 | 1.2 | 44.0 | 16.2 | 9.0 | 0 | 0 | 1 | 71 | 27 | 0 | 1 | 0 | 0 | |
| MEAN | 8.24 | 2.8 | 48.5 | 17.3 | 10.9 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

CONTROL

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas |
| | | | | | | | | | | | | | UC |
| <u>4-WEEKS</u> | | | | | | | | | | | | | |
| 65 (M) | 8.41 | 1.4 | 51.0 | 17.3 | 9.7 | 0 | 0 | 0 | 54 | 44 | 2 | 0 | 0 |
| 66 (M) | 8.84 | 2.2 | 57.0 | 20.3 | 10.0 | 0 | 0 | 0 | 55 | 43 | 1 | 1 | 0 |
| 72 (M) | 7.76 | 0.6 | 47.0 | 15.6 | 7.7 | 0 | 0 | 0 | 74 | 21 | 1 | 4 | 0 |
| MEAN | 8.34 | 1.4 | 51.5 | 17.7 | 9.1 | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | |
| 65 (M) | 7.33 | 3.4 | 47.5 | 15.3 | 9.9 | 0 | 0 | 0 | 58 | 40 | 2 | 0 | 0 |
| 66 (M) | 9.03 | 1.2 | 55.5 | 18.8 | 8.1 | 0 | 0 | 0 | 44 | 52 | 1 | 3 | 0 |
| 72 (M) | 7.97 | 0.4 | 47.0 | 16.6 | 8.8 | 0 | 0 | 0 | 70 | 24 | 2 | 4 | 0 |
| MEAN | 8.31 | 1.7 | 50.0 | 16.9 | 8.9 | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | |
| 65 (M) | 7.35 | 0.6 | 45.0 | 15.6 | 12.2 | 0 | 0 | 0 | 57 | 42 | 1 | 0 | 0 |
| 66 (M) | 8.24 | 0.6 | 53.0 | 18.9 | 9.2 | 0 | 0 | 2 | 51 | 45 | 2 | 0 | 0 |
| 72 (M) | 7.75 | 0.6 | 45.8 | 16.1 | 8.7 | 0 | 0 | 0 | 61 | 36 | 0 | 3 | 0 |
| MEAN | 7.78 | 0.6 | 48.0 | 16.9 | 10.0 | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

CONTROL

| DOG NO. AND JEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 37 (F) | 8.79 | 0.4 | 52.5 | 19.2 | 7.6 | 0 | 0 | 1 | 71 | 24 | 2 | 2 | 0 | 0 |
| 43 (F) | 7.64 | 0.6 | 45.0 | 16.7 | 12.2 | 0 | 0 | 0 | 49 | 44 | 5 | 1 | 1 | 0 |
| 45 (F) | 8.29 | 0.2 | 48.5 | 18.1 | 14.7 | 0 | 0 | 1 | 68 | 22 | 4 | 5 | 0 | 0 |
| MEAN | 8.24 | 0.4 | 48.5 | 18.0 | 11.5 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 37 (F) | 8.97 | 1.0 | 54.0 | 19.5 | 7.7 | 0 | 0 | 0 | 72 | 25 | 1 | 2 | 0 | 0 |
| 43 (F) | 7.23 | 2.2 | 45.0 | 15.8 | 12.7 | 0 | 0 | 0 | 67 | 30 | 1 | 2 | 0 | 0 |
| 45 (F) | 8.70 | 0.6 | 50.0 | 17.0 | 10.7 | 0 | 0 | 0 | 50 | 40 | 3 | 7 | 0 | 0 |
| MEAN | 8.30 | 1.3 | 49.5 | 17.4 | 10.4 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|---|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| | | | | | | | | | | | | | | | |
| CONTROL | | | | | | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | | | | | | |
| 37 (F) | 7.88 | 0.6 | 51.0 | 17.2 | 9.2 | 0 | 0 | 0 | 46 | 42 | 5 | 7 | 0 | 0 | 0 |
| 43 (F) | 7.03 | 0.4 | 45.5 | 15.9 | 11.6 | 0 | 0 | 0 | 43 | 52 | 4 | 1 | 0 | 0 | 0 |
| 45 (F) | 8.24 | 1.0 | 50.5 | 17.2 | 10.6 | 0 | 0 | 0 | 65 | 30 | 4 | 1 | 0 | 0 | 0 |
| MEAN | 7.72 | 0.7 | 49.0 | 16.8 | 10.5 | | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | | |
| 37 (F) | 7.77 | 0.4 | 48.0 | 16.3 | 12.0 | 0 | 0 | 0 | 61 | 25 | 8 | 5 | 1 | 0 | 0 |
| 43 (F) | 6.53 | 0.8 | 40.5 | 14.3 | 11.0 | 0 | 0 | 1 | 51 | 41 | 5 | 2 | 0 | 0 | 0 |
| 45 (F) | 8.21 | 0.4 | 50.0 | 17.4 | 8.3 | 0 | 0 | 0 | 41 | 50 | 4 | 5 | 0 | 0 | 0 |
| MEAN | 7.50 | 0.5 | 46.0 | 16.0 | 10.4 | | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | | |
| 37 (F) | 6.83 | 0.8 | 45.5 | 15.8 | 10.4 | 0 | 0 | 0 | 58 | 38 | 2 | 2 | 0 | 0 | 0 |
| 43 (F) | 6.47 | 0.4 | 43.5 | 15.1 | 10.8 | 0 | 0 | 0 | 54 | 42 | 1 | 3 | 0 | 0 | 0 |
| 45 (F) | 7.40 | 0.6 | 45.5 | 16.1 | 9.6 | 0 | 0 | 0 | 34 | 66 | 0 | 0 | 0 | 0 | 0 |
| MEAN | 6.90 | 0.6 | 45.0 | 15.7 | 10.3 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 10 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| | | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 55 (M) | 9.04 | 0.8 | 54.0 | 19.2 | 5.8 | 0 | 0 | 0 | 53 | 35 | 7 | 5 | 0 | 0 | |
| 73 (M) | 3.92 | 0.5 | 49.0 | 17.2 | 6.6 | 0 | 0 | 0 | 62 | 34 | 1 | 3 | 0 | 0 | |
| 74 (M) | 8.21 | 1.0 | 49.5 | 17.5 | 10.0 | 0 | 0 | 0 | 73 | 22 | 1 | 4 | 0 | 0 | |
| MEAN | 8.72 | 0.8 | 51.0 | 18.0 | 7.5 | | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 55 (M) | 8.23 | 1.0 | 50.5 | 18.3 | 7.4 | 0 | 0 | 0 | 63 | 34 | 1 | 2 | 0 | 0 | |
| 73 (M) | 8.07 | 0.6 | 47.0 | 17.0 | 8.2 | 0 | 0 | 0 | 75 | 17 | 4 | 4 | 0 | 0 | |
| 74 (M) | 7.71 | 1.4 | 46.0 | 16.1 | 8.4 | 0 | 0 | 0 | 78 | 17 | 1 | 4 | 0 | 0 | |
| MEAN | 8.00 | 1.0 | 48.0 | 17.1 | 8.0 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 10 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| 4-WEEKS | | | | | | | | | | | | | | | |
| 55 (M) | 7.76 | 0.5 | 51.0 | 17.8 | 7.7 | 0 | 0 | 0 | 60 | 28 | 8 | 4 | 0 | 0 | |
| 73 (M) | 8.08 | <0.1 | 49.5 | 17.6 | 8.4 | 0 | 0 | 0 | 58 | 32 | 9 | 1 | 0 | 0 | |
| 74 (M) | 7.11 | 0.4 | 47.5 | 16.8 | 7.0 | 0 | 0 | 0 | 59 | 29 | 4 | 8 | 0 | 0 | |
| MEAN | 7.65 | <0.3 | 49.5 | 17.4 | 7.7 | | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | | |
| 55 (M) | 8.41 | 0.1 | 53.5 | 19.0 | 6.8 | 0 | 0 | 0 | 77 | 20 | 2 | 1 | 0 | 0 | |
| 73 (M) | 8.55 | 0.1 | 51.5 | 17.7 | 12.9 | 0 | 0 | 0 | 71 | 29 | 0 | 0 | 0 | 0 | |
| 74 (M) | 7.67 | 1.0 | 48.5 | 16.7 | 12.1 | 0 | 0 | 0 | 83 | 15 | 1 | 1 | 0 | 0 | |
| MEAN | 8.21 | 0.4 | 51.0 | 17.8 | 10.6 | | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | | |
| 55 (M) | 8.36 | 0.2 | 51.5 | 18.3 | 8.0 | 0 | 0 | 0 | 70 | 23 | 5 | 2 | 0 | 0 | |
| 73 (M) | 7.58 | 0.2 | 46.5 | 16.1 | 8.3 | 0 | 0 | 0 | 58 | 37 | 5 | 0 | 0 | 0 | |
| 74 (M) | 7.49 | 0.4 | 46.0 | 16.2 | 7.9 | 0 | 0 | 0 | 70 | 26 | 1 | 3 | 0 | 0 | |
| MEAN | 7.81 | 0.3 | 48.0 | 16.9 | 8.1 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 10 mg/kg,

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| | | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 49 (F) | 7.92 | 0.6 | 46.0 | 16.8 | 9.5 | 0 | 0 | 2 | 66 | 29 | 2 | 1 | 0 | 0 | |
| 50 (F) | 8.65 | 0.6 | 53.5 | 19.3 | 10.8 | 0 | 0 | 0 | 62 | 32 | 3 | 2 | 0 | 1 | |
| 76 (F) | 6.81 | 1.0 | 42.0 | 14.7 | 10.8 | 0 | 0 | 0 | 43 | 51 | 4 | 2 | 0 | 0 | |
| MEAN | 7.58 | 0.7 | 47.0 | 16.9 | 10.4 | | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | | |
| 49 (F) | 8.11 | 1.8 | 47.0 | 16.5 | 9.7 | 0 | 0 | 0 | 55 | 40 | 3 | 2 | 0 | 0 | |
| 50 (F) | 7.85 | 2.6 | 49.5 | 17.4 | 10.2 | 0 | 0 | 0 | 63 | 35 | 0 | 2 | 0 | 0 | |
| 76 (F) | 6.44 | 3.2 | 40.5 | 14.2 | 10.9 | 0 | 0 | 0 | 38 | 57 | 2 | 3 | 0 | 0 | |
| MEAN | 7.47 | 2.5 | 45.5 | 16.0 | 10.3 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 10 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL. VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|--------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| <u>4-WEEKS</u> | | | | | | | | | | | | | | |
| 49 (F) | 7.79 | <0.1 | 49.0 | 17.0 | 9.9 | 0 | 0 | 0 | 59 | 38 | 0 | 3 | 0 | 0 |
| 50 (F) | 6.52 | 0.2 | 44.0 | 15.6 | 9.2 | 0 | 0 | 0 | 63 | 31 | 0 | 6 | 0 | 0 |
| 76 (F) | 7.77 | 0.8 | 52.5 | 18.7 | 12.1 | 0 | 0 | 0 | 60 | 36 | 3 | 1 | 0 | 0 |
| MEAN | 7.36 | <0.4 | 48.5 | 17.1 | 10.4 | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | |
| 49 (F) | 7.62 | 1.4 | 46.0 | 16.1 | 11.2 | 0 | 0 | 0 | 67 | 27 | 5 | 1 | 0 | 0 |
| 50 (F) | 6.84 | 1.0 | 46.0 | 16.0 | 10.8 | 0 | 0 | 0 | 63 | 27 | 6 | 4 | 0 | 0 |
| 76 (F) | 9.32 | 1.2 | 57.0 | 19.4 | 11.2 | 0 | 0 | 0 | 49 | 51 | 0 | 0 | 0 | 0 |
| MEAN | 7.93 | 1.2 | 49.5 | 17.2 | 10.8 | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | |
| 49 (F) | 7.39 | 1.0 | 44.0 | 15.8 | 11.2 | 0 | 0 | 0 | 67 | 24 | 4 | 5 | 0 | 0 |
| 50 (F) | 7.59 | 0.6 | 49.5 | 16.5 | 11.1 | 0 | 0 | 0 | 65 | 31 | 1 | 3 | 0 | 0 |
| 76 (F) | 8.15 | 0.2 | 52.0 | 18.8 | 10.8 | 0 | 0 | 0 | 61 | 32 | 4 | 3 | 0 | 0 |
| MEAN | 7.71 | 0.6 | 48.5 | 17.0 | 11.0 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 64 (M) | 8.48 | 1.4 | 51.0 | 17.8 | 13.8 | 0 | 0 | 0 | 52 | 41 | 2 | 5 | 0 | 0 |
| 68 (M) | 9.07 | 1.4 | 53.0 | 18.2 | 11.1 | 0 | 0 | 0 | 50 | 44 | 4 | 2 | 0 | 0 |
| 75 (M) | C L O T T E D | | | | | 0 | 0 | 0 | 75 | 22 | 0 | 3 | 0 | 0 |
| MEAN | 3.78 | 1.4 | 52.0 | 18.0 | 12.5 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 64 (M) | 7.16 | 1.0 | 44.0 | 15.9 | 9.1 | 0 | 0 | 0 | 54 | 40 | 5 | 1 | 0 | 0 |
| 68 (M) | 8.44 | 1.0 | 50.0 | 17.7 | 10.1 | 0 | 0 | 0 | 52 | 45 | 0 | 3 | 0 | 0 |
| 75 (M) | 8.04 | 1.4 | 48.5 | 17.6 | 12.4 | 0 | 0 | 0 | 79 | 19 | 1 | 1 | 0 | 0 |
| MEAN | 7.88 | 1.1 | 47.5 | 17.1 | 10.5 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | | | | | |
| 64 (M) | 8.16 | 1.4 | 51.0 | 18.3 | 11.2 | 0 | 0 | 0 | 57 | 31 | 10 | 2 | 0 | 0 |
| 68 (M) | 8.32 | 0.6 | 51.0 | 16.9 | 9.8 | 0 | 0 | 0 | 50 | 47 | 2 | 1 | 0 | 0 |
| 75 (M) | D E A D | | | | | | | | | | | | | |
| MEAN | 8.24 | 1.0 | 51.0 | 17.6 | 10.5 | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | |
| 64 (M) | 8.27 | 0.8 | 52.0 | 18.1 | 8.9 | 0 | 0 | 0 | 57 | 42 | 1 | 0 | 0 | 0 |
| 68 (M) | 8.16 | 0.6 | 52.0 | 17.7 | 10.9 | 0 | 0 | 0 | 57 | 40 | 1 | 2 | 0 | 0 |
| 75 (M) | D E A D | | | | | | | | | | | | | |
| MEAN | 8.22 | 0.7 | 52.0 | 17.9 | 9.9 | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | |
| 64 (M) | 7.31 | 1.0 | 46.0 | 16.2 | 9.7 | 0 | 0 | 0 | 64 | 29 | 5 | 2 | 0 | 0 |
| 68 (M) | 8.66 | 0.2 | 51.5 | 18.4 | 10.7 | 0 | 0 | 0 | 63 | 32 | 2 | 3 | 0 | 0 |
| 75 (M) | D E A D | | | | | | | | | | | | | |
| MEAN | 7.99 | 0.6 | 49.0 | 17.3 | 10.2 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|-------------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| <u>3 WEEKS PRE-DRUG</u> | | | | | | | | | | | | | | |
| 40 (F) | 8.60 | 0.8 | 50.0 | 18.6 | 14.1 | 0 | 0 | 0 | 65 | 32 | 1 | 2 | 0 | 0 |
| 41 (F) | 7.03 | 0.2 | 40.0 | 14.5 | 12.0 | 0 | 0 | 0 | 51 | 46 | 2 | 1 | 0 | 0 |
| 54 (F) | 9.00 | 1.0 | 51.5 | 18.2 | 8.4 | 0 | 0 | 1 | 69 | 18 | 7 | 5 | 0 | 0 |
| MEAN | 8.21 | 0.7 | 47.0 | 17.1 | 11.5 | | | | | | | | | |
| <u>2 WEEKS PRE-DRUG</u> | | | | | | | | | | | | | | |
| 40 (F) | 8.25 | 0.8 | 49.0 | 17.2 | 13.7 | 0 | 0 | 0 | 62 | 33 | 2 | 3 | 0 | 0 |
| 41 (F) | 6.79 | 0.6 | 39.5 | 13.8 | 11.1 | 0 | 0 | 0 | 69 | 28 | 2 | 1 | 0 | 0 |
| 54 (F) | 8.45 | 2.0 | 48.5 | 17.5 | 10.0 | 0 | 0 | 0 | 65 | 26 | 2 | 7 | 0 | 0 |
| MEAN | 7.83 | 1.1 | 45.5 | 16.2 | 11.6 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

TABLE 1. (continued)

HEMATOLOGY - CYTOLOGY

RDX - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| <u>4-WEEKS</u> | | | | | | | | | | | | | | |
| 40 (F) | 7.71 | 0.4 | 46.5 | 16.0 | 11.0 | 0 | 0 | 0 | 61 | 29 | 1 | 9 | 0 | 0 |
| 41 (F) | 6.77 | 0.6 | 42.0 | 15.1 | 11.3 | 0 | 0 | 0 | 67 | 28 | 1 | 4 | 0 | 0 |
| 54 (F) | 8.00 | 0.4 | 49.5 | 17.4 | 9.8 | 0 | 0 | 0 | 58 | 32 | 8 | 2 | 0 | 0 |
| MEAN | 7.49 | 0.5 | 46.0 | 16.2 | 10.7 | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | |
| 40 (F) | 7.02 | 0.8 | 44.5 | 14.9 | 12.0 | 1 | 0 | 0 | 67 | 29 | 2 | 2 | 0 | 0 |
| 41 (F) | 6.85 | 0.4 | 41.0 | 14.0 | 11.7 | 0 | 0 | 0 | 66 | 33 | 1 | 0 | 0 | 0 |
| 54 (F) | 7.71 | 0.6 | 49.0 | 16.9 | 10.6 | 0 | 0 | 0 | 55 | 39 | 4 | 2 | 0 | 0 |
| MEAN | 7.19 | 0.6 | 45.0 | 15.3 | 11.4 | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | |
| 40 (F) | 7.62 | 0.2 | 48.5 | 17.0 | 10.9 | 0 | 0 | 0 | 64 | 27 | 3 | 6 | 0 | 0 |
| 41 (F) | 7.36 | 0.4 | 45.0 | 15.8 | 18.4 | 0 | 0 | 0 | 74 | 22 | 1 | 3 | 0 | 0 |
| 54 (F) | 7.20 | 0.4 | 43.0 | 15.2 | 11.6 | 0 | 0 | 2 | 62 | 23 | 3 | 10 | 0 | 0 |
| MEAN | 7.39 | 0.3 | 45.5 | 16.0 | 13.6 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BLONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 59 (M) | 8.46 | 0.4 | 49.5 | 17.6 | 8.3 | 0 | 0 | 1 | 69 | 27 | 2 | 1 | 0 | 0 |
| 61 (M) | 8.46 | 0.2 | 48.5 | 17.0 | 8.4 | 0 | 0 | 0 | 65 | 28 | 1 | 6 | 0 | 0 |
| 67 (M) | 8.05 | 2.0 | 48.5 | 16.5 | 13.2 | 0 | 0 | 0 | 54 | 37 | 1 | 8 | 0 | 0 |
| MEAN | 8.32 | 0.9 | 49.0 | 17.0 | 10.0 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 59 (M) | 8.05 | 1.6 | 47.5 | 17.3 | 10.3 | 0 | 0 | 0 | 72 | 23 | 3 | 2 | 0 | 0 |
| 61 (M) | 8.23 | 1.6 | 46.5 | 16.7 | 10.5 | 0 | 0 | 0 | 60 | 29 | 2 | 9 | 0 | 0 |
| 67 (M) | 7.11 | 2.0 | 40.0 | 14.4 | 13.0 | 0 | 0 | 0 | 70 | 28 | 0 | 2 | 0 | 0 |
| MEAN | 7.80 | 1.7 | 44.5 | 16.1 | 11.3 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%) | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| 4-WEEKS | | | | | | | | | | | | | | | |
| 59 (M) | 7.76 | 0.3 | 47.5 | 17.0 | 10.5 | 0 | 0 | 0 | 79 | 13 | 3 | 5 | 0 | 0 | |
| 61 (M) | 8.92 | 1.4 | 55.5 | 18.3 | 10.3 | 0 | 0 | 0 | 56 | 31 | 7 | 6 | 0 | 0 | |
| 67 (M) | 7.62 | 0.6 | 45.5 | 15.7 | 11.0 | 0 | 0 | 0 | 67 | 22 | 0 | 1 | 0 | 0 | |
| MEAN | 8.10 | 0.8 | 49.5 | 17.0 | 10.6 | | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | | |
| 59 (M) | 7.47 | 1.0 | 47.5 | 16.7 | 7.9 | 0 | 0 | 0 | 65 | 27 | 3 | 5 | 0 | 0 | |
| 61 (M) | 8.67 | 0.4 | 49.0 | 17.4 | 9.7 | 0 | 0 | 0 | 61 | 31 | 2 | 6 | 0 | 0 | |
| 67 (M) | 7.58 | 0.6 | 46.0 | 15.6 | 11.8 | 1 | 0 | 2 | 55 | 36 | 2 | 4 | 0 | 0 | |
| MEAN | 7.91 | 0.7 | 47.5 | 16.6 | 9.8 | | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | | |
| 59 (M) | 7.20 | 0.2 | 44.5 | 16.2 | 9.0 | 0 | 0 | 0 | 60 | 38 | 1 | 1 | 0 | 0 | |
| 61 (M) | 8.07 | 0.1 | 49.5 | 17.0 | 9.1 | 0 | 0 | 0 | 55 | 34 | 3 | 7 | 0 | 0 | |
| 67 (M) | 7.42 | 0.2 | 44.0 | 15.0 | 13.4 | 0 | 0 | 0 | 59 | 29 | 0 | 2 | 0 | 0 | |
| MEAN | 7.56 | 0.2 | 46.0 | 16.1 | 10.5 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | |
| 35 (F) | 8.21 | 0.6 | 49.0 | 16.6 | 9.9 | 0 | 0 | 0 | 40 | 55 | 5 | 0 | 0 |
| 36 (F) | 7.16 | 0.4 | 43.0 | 14.7 | 9.1 | 0 | 0 | 1 | 50 | 45 | 3 | 0 | 1 |
| 53 (F) | 9.33 | 0.3 | 53.0 | 19.0 | 7.9 | 0 | 0 | 1 | 74 | 21 | 1 | 3 | 0 |
| MEAN | 8.23 | 0.4 | 48.5 | 16.8 | 9.0 | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | |
| 35 (F) | 7.12 | 0.6 | 43.0 | 15.6 | 9.6 | 0 | 0 | 0 | 63 | 36 | 1 | 0 | 0 |
| 36 (F) | 6.98 | 1.0 | 42.0 | 15.1 | 12.5 | 0 | 0 | 0 | 56 | 42 | 1 | 1 | 0 |
| 53 (F) | 9.12 | 1.8 | 52.0 | 18.7 | 10.1 | 0 | 0 | 0 | 65 | 28 | 5 | 2 | 0 |
| MEAN | 7.74 | 1.1 | 45.5 | 16.5 | 10.7 | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| <u>4-WEEKS</u> | | | | | | | | | | | | | | |
| 35 (F) | 7.80 | 1.6 | 53.0 | 18.3 | 8.2 | 0 | 0 | 0 | 55 | 38 | 3 | 4 | 0 | 0 |
| 36 (F) | 7.32 | 1.8 | 49.0 | 16.5 | 9.3 | 0 | 0 | 0 | 56 | 41 | 2 | 1 | 0 | 0 |
| 53 (F) | 8.58 | 0.8 | 53.5 | 18.1 | 9.0 | 0 | 0 | 0 | 66 | 28 | 3 | 3 | 0 | 0 |
| MEAN | 7.90 | 1.4 | 52.0 | 17.5 | 8.8 | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | |
| 35 (F) | 8.85 | 0.6 | 54.5 | 18.9 | 9.7 | 0 | 0 | 0 | 55 | 37 | 7 | 1 | 0 | 0 |
| 36 (F) | 8.15 | 2.0 | 49.5 | 17.3 | 10.3 | 0 | 0 | 0 | 68 | 30 | 2 | 0 | 0 | 0 |
| 53 (F) | 8.65 | 2.8 | 51.0 | 17.4 | 11.2 | 0 | 0 | 0 | 64 | 23 | 3 | 10 | 0 | 0 |
| MEAN | 8.55 | 1.8 | 51.5 | 17.9 | 10.4 | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | |
| 35 (F) | 8.42 | 0.6 | 52.0 | 18.6 | 11.3 | 0 | 0 | 0 | 53 | 46 | 1 | 0 | 0 | 0 |
| 36 (F) | 7.28 | 0.6 | 43.5 | 15.4 | 10.8 | 0 | 0 | 0 | 64 | 34 | 1 | 1 | 0 | 0 |
| 53 (F) | 8.03 | 0.4 | 48.5 | 16.9 | 9.5 | 0 | 0 | 0 | 61 | 30 | 5 | 4 | 0 | 0 |
| MEAN | 7.91 | 0.5 | 48.0 | 17.0 | 10.5 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 69 (M) | 7.81 | 2.2 | 46.5 | 16.1 | 10.4 | 0 | 0 | 0 | 61 | 36 | 3 | 0 | 0 | 0 |
| 70 (M) | 8.77 | 0.8 | 54.0 | 18.5 | 12.8 | 0 | 0 | 0 | 55 | 38 | 3 | 4 | 0 | 0 |
| 71 (M) | 8.36 | 3.4 | 51.5 | 18.2 | 10.8 | 0 | 0 | 0 | 57 | 35 | 2 | 6 | 0 | 0 |
| MEAN | 8.31 | 2.1 | 50.5 | 17.6 | 11.3 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 69 (M) | 7.43 | 0.6 | 44.0 | 16.1 | 10.9 | 0 | 0 | 0 | 65 | 34 | 0 | 1 | 0 | 0 |
| 70 (M) | 8.79 | 1.8 | 50.5 | 16.7 | 11.9 | 0 | 0 | 0 | 57 | 42 | 1 | 0 | 0 | 0 |
| 71 (M) | 7.83 | 1.6 | 48.0 | 16.2 | 12.2 | 0 | 0 | 0 | 58 | 36 | 0 | 6 | 0 | 0 |
| MEAN | 8.02 | 1.3 | 47.5 | 16.3 | 11.7 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | | | | | |
| 69 (M) | 7.58 | 0.6 | 49.5 | 17.2 | 10.0 | 0 | 0 | 0 | 52 | 41 | 5 | 2 | 0 | 0 |
| 70 (M) | 8.71 | 0.6 | 55.0 | 18.8 | 11.4 | 0 | 0 | 0 | 53 | 39 | 2 | 6 | 0 | 0 |
| 71 (M) | 7.72 | 0.8 | 50.0 | 17.5 | 9.8 | 0 | 0 | 0 | 58 | 33 | 3 | 7 | 0 | 0 |
| MEAN | 8.00 | 0.7 | 51.5 | 17.8 | 10.4 | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | |
| 69 (M) | 7.47 | 0.6 | 46.5 | 16.2 | 13.8 | 0 | 0 | 0 | 75 | 24 | 0 | 1 | 0 | 0 |
| 70 (M) | 8.48 | <0.1 | 52.5 | 18.4 | 12.9 | 0 | 0 | 0 | 69 | 29 | 0 | 2 | 0 | 0 |
| 71 (M) | 7.28 | 0.6 | 48.0 | 16.7 | 11.3 | 0 | 0 | 0 | 48 | 45 | 5 | 2 | 0 | 0 |
| MEAN | 7.74 | <0.4 | 49.0 | 17.1 | 12.7 | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | |
| 69 (M) | 6.99 | 0.8 | 45.0 | 15.3 | 12.5 | 0 | 0 | 0 | 80 | 16 | 2 | 2 | 0 | 0 |
| 70 (M) | 7.05 | 1.0 | 47.5 | 16.1 | 14.9 | 0 | 0 | 0 | 74 | 23 | 2 | 1 | 0 | 0 |
| 71 (M) | 7.72 | 2.4 | 49.0 | 17.2 | 10.6 | 0 | 0 | 0 | 55 | 36 | 4 | 4 | 0 | 1 |
| MEAN | 7.25 | 1.4 | 47.0 | 16.2 | 12.7 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 46 (F) | 8.71 | 0.4 | 50.5 | 18.4 | 8.0 | 0 | 0 | 1 | 50 | 44 | 2 | 3 | 0 | 0 |
| 47 (F) | 7.31 | <0.1 | 43.5 | 16.6 | 8.2 | 0 | 0 | 0 | 63 | 31 | 1 | 4 | 0 | 1 |
| 48 (F) | 9.18 | 0.6 | 54.5 | 20.3 | 6.0 | 0 | 0 | 0 | 68 | 26 | 2 | 4 | 0 | 0 |
| MEAN | 8.40 | <0.4 | 49.5 | 18.4 | 7.4 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 46 (F) | 8.24 | 1.6 | 49.0 | 16.5 | 9.7 | 0 | 0 | 0 | 71 | 25 | 0 | 4 | 0 | 0 |
| 47 (F) | 7.81 | 1.4 | 45.0 | 16.2 | 9.5 | 0 | 0 | 0 | 60 | 39 | 1 | 0 | 0 | 0 |
| 48 (F) | 9.00 | 2.0 | 56.0 | 20.4 | 7.1 | 0 | 0 | 0 | 54 | 39 | 3 | 4 | 0 | 0 |
| MEAN | 8.35 | 1.7 | 50.0 | 17.7 | 8.8 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| | | | | | | | | | | | | | | | |
| 46 (F) | 7.64 | 0.4 | 48.0 | 17.2 | 9.1 | 0 | 0 | 0 | 60 | 31 | 8 | 1 | 0 | 0 | |
| 47 (F) | 7.15 | 0.8 | 46.5 | 16.2 | 10.1 | 0 | 0 | 0 | 67 | 29 | 3 | 1 | 0 | 0 | |
| 48 (F) | 8.89 | 0.2 | 56.5 | 20.3 | 9.8 | 0 | 0 | 1 | 67 | 32 | 0 | 0 | 0 | 0 | |
| MEAN | 7.87 | 0.5 | 50.5 | 17.9 | 9.7 | | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | | |
| 46 (F) | 7.44 | 1.0 | 46.0 | 15.6 | 8.5 | 0 | 0 | 1 | 68 | 28 | 0 | 3 | 0 | 0 | |
| 47 (F) | 7.07 | 1.4 | 44.5 | 15.7 | 10.3 | 0 | 0 | 1 | 69 | 25 | 2 | 3 | 0 | 0 | |
| 48 (F) | 8.51 | 0.1 | 54.0 | 19.2 | 7.5 | 0 | 0 | 0 | 64 | 32 | 0 | 3 | 1 | 0 | |
| MEAN | 7.67 | 0.9 | 48.0 | 16.8 | 8.8 | | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | | |
| 46 (F) | 7.52 | 0.4 | 48.0 | 16.2 | 9.9 | 0 | 0 | 0 | 80 | 17 | 2 | 1 | 0 | 0 | |
| 47 (F) | 7.35 | 0.6 | 47.0 | 16.3 | 11.1 | 0 | 0 | 0 | 77 | 17 | 5 | 1 | 0 | 0 | |
| 48 (F) | 6.43 | 0.8 | 44.0 | 15.5 | 8.1 | 0 | 0 | 0 | 60 | 31 | 6 | 3 | 0 | 0 | |
| MEAN | 7.10 | 0.6 | 46.5 | 16.0 | 9.7 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 60 (M) | 8.82 | 1.0 | 50.5 | 18.1 | 7.9 | 0 | 0 | 0 | 67 | 32 | 1 | 0 | 0 | 0 |
| 62 (M) | 8.11 | 1.4 | 48.0 | 16.0 | 7.9 | 0 | 0 | 0 | 46 | 42 | 4 | 8 | 0 | 0 |
| 63 (M) | 8.79 | 1.0 | 52.0 | 18.1 | 10.0 | 0 | 0 | 0 | 56 | 39 | 1 | 4 | 0 | 0 |
| MEAN | 8.57 | 1.1 | 50.0 | 17.4 | 8.6 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 60 (M) | 8.65 | 3.4 | 49.5 | 17.7 | 10.6 | 0 | 0 | 0 | 66 | 31 | 1 | 2 | 0 | 0 |
| 62 (M) | 7.38 | 0.8 | 44.0 | 16.0 | 8.4 | 0 | 0 | 0 | 59 | 35 | 3 | 3 | 0 | 0 |
| 63 (M) | 8.17 | 0.4 | 48.5 | 17.0 | 11.1 | 0 | 0 | 0 | 64 | 35 | 1 | 0 | 0 | 0 |
| MEAN | 8.07 | 1.5 | 47.5 | 16.9 | 10.0 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|--|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| 4-WEEKS | | | | | | | | | | | | | | | |
| 60 (M) | 7.49 | 1.0 | 47.0 | 16.5 | 9.7 | 0 | 0 | 0 | 64 | 28 | 7 | 1 | 0 | 0 | |
| 62 (M) | 7.51 | 0.2 | 46.5 | 16.6 | 9.1 | 0 | 0 | 0 | 48 | 39 | 6 | 6 | 1 | 0 | |
| 63 (M) | 8.92 | <0.1 | 55.5 | 19.7 | 11.0 | 0 | 0 | 0 | 69 | 22 | 7 | 2 | 0 | 0 | |
| MEAN | 7.97 | <0.4 | 49.5 | 17.6 | 9.9 | | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | | |
| 60 (M) | 7.67 | 0.6 | 47.0 | 16.6 | 10.6 | 0 | 0 | 0 | 75 | 20 | 4 | 1 | 0 | 0 | |
| 62 (M) | 7.22 | 0.5 | 45.0 | 15.4 | 10.8 | 0 | 0 | 0 | 61 | 25 | 7 | 7 | 0 | 0 | |
| 63 (M) | 8.53 | 0.8 | 52.0 | 18.3 | 12.4 | 0 | 0 | 0 | 73 | 23 | 4 | 0 | 0 | 0 | |
| MEAN | 7.81 | 0.6 | 48.0 | 16.8 | 11.3 | | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | | |
| 60 (M) | 7.02 | 1.8 | 43.5 | 15.1 | 11.9 | 0 | 0 | 3 | 61 | 30 | 3 | 3 | 0 | 0 | |
| 62 (M) | 7.43 | 0.8 | 45.0 | 15.5 | 9.8 | 0 | 0 | 0 | 76 | 16 | 2 | 6 | 0 | 0 | |
| 63 (M) | 7.92 | 0.2 | 50.0 | 17.4 | 10.2 | 0 | 0 | 0 | 65 | 31 | 3 | 1 | 0 | 0 | |
| MEAN | 7.46 | 0.9 | 46.0 | 16.0 | 10.6 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETI. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ⁵)* | DIFFERENTIAL (%)* | | | | | | | | |
|-------------------------|---|------------|-------------------|-------------------------|--|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | |
| <u>3 WEEKS PRE-DRUG</u> | | | | | | | | | | | | | | |
| 42 (F) | 8.02 | 0.4 | 46.5 | 17.2 | 8.8 | 0 | 0 | 0 | 66 | 28 | 2 | 3 | 0 | 1 |
| 38 (F) | 8.12 | 1.0 | 50.0 | 18.7 | 10.6 | 0 | 0 | 0 | 51 | 40 | 2 | 7 | 0 | 0 |
| 52 (F) | 8.65 | 0.1 | 52.0 | 19.0 | 5.2 | 0 | 0 | 1 | 45 | 47 | 1 | 5 | 0 | 1 |
| MEAN | 8.26 | 0.5 | 49.5 | 18.3 | 8.2 | | | | | | | | | |
| <u>2 WEEKS PRE-DRUG</u> | | | | | | | | | | | | | | |
| 42 (F) | 7.60 | 1.8 | 45.0 | 16.2 | 9.1 | 0 | 0 | 0 | 71 | 24 | 4 | 1 | 0 | 0 |
| 38 (F) | 7.80 | 1.0 | 49.5 | 17.7 | 10.0 | 0 | 0 | 0 | 64 | 30 | 2 | 4 | 0 | 0 |
| 52 (F) | 7.67 | 0.4 | 44.0 | 16.0 | 7.2 | 0 | 0 | 0 | 51 | 39 | 6 | 4 | 0 | 0 |
| MEAN | 7.69 | 1.1 | 46.0 | 16.6 | 8.8 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| <u>4-WEEKS</u> | | | | | | | | | | | | | | |
| 42 (F) | 7.10 | 1.0 | 45.0 | 15.8 | 8.9 | 0 | 0 | 0 | 57 | 42 | 0 | 1 | 0 | 0 |
| 38 (F) | 8.17 | 0.1 | 49.5 | 17.0 | 9.3 | 0 | 0 | 0 | 68 | 22 | 5 | 5 | 0 | 0 |
| 52 (F) | 7.60 | 0.8 | 51.5 | 18.2 | 6.4 | 0 | 0 | 0 | 57 | 35 | 3 | 5 | 0 | 0 |
| MEAN | 7.62 | 0.6 | 48.5 | 17.0 | 8.2 | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | |
| 42 (F) | 6.69 | 0.6 | 44.0 | 15.2 | 9.2 | 0 | 0 | 0 | 79 | 19 | 2 | 0 | 0 | 0 |
| 38 (F) | 8.17 | 0.8 | 51.5 | 18.2 | 8.8 | 0 | 0 | 0 | 63 | 35 | 0 | 2 | 0 | 0 |
| 52 (F) | 8.17 | 0.1 | 51.0 | 18.1 | 7.5 | 0 | 0 | 0 | 55 | 41 | 1 | 3 | 0 | 0 |
| MEAN | 7.63 | 0.5 | 49.0 | 17.2 | 8.5 | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | |
| 42 (F) | 6.58 | 1.0 | 44.5 | 15.2 | 11.1 | 0 | 0 | 2 | 73 | 20 | 1 | 4 | 0 | 0 |
| 38 (F) | 7.64 | 0.3 | 49.0 | 17.6 | 7.4 | 0 | 0 | 0 | 61 | 32 | 4 | 3 | 0 | 0 |
| 52 (F) | 8.58 | 0.6 | 53.0 | 18.8 | 8.1 | 0 | 0 | 0 | 53 | 40 | 0 | 7 | 0 | 0 |
| MEAN | 7.60 | 0.6 | 49.0 | 17.2 | 8.9 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL. (%)* | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|--------------------|-----|-----|-----|----|----|----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | UC |
| | | | | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | |
| 56 (M) | 8.24 | 0.2 | 47.5 | 17.0 | 8.8 | 0 | 0 | 0 | 64 | 28 | 2 | 6 | 0 |
| 57 (M) | 8.16 | 0.6 | 47.5 | 16.9 | 9.7 | 0 | 0 | 0 | 57 | 37 | 1 | 4 | 0 |
| 58 (M) | 7.58 | 0.4 | 43.5 | 15.2 | 9.3 | 0 | 0 | 1 | 52 | 36 | 4 | 7 | 0 |
| MEAN | 7.99 | 0.4 | 46.0 | 16.4 | 9.3 | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | |
| 56 (M) | 7.87 | 2.6 | 47.5 | 17.1 | 8.6 | 0 | 0 | 0 | 64 | 35 | 1 | 0 | 0 |
| 57 (M) | 7.43 | 0.8 | 42.0 | 15.6 | 9.6 | 0 | 0 | 0 | 70 | 27 | 2 | 1 | 0 |
| 58 (M) | 7.12 | 0.8 | 41.0 | 14.6 | 10.0 | 0 | 0 | 0 | 37 | 58 | 0 | 5 | 0 |
| MEAN | 7.47 | 1.4 | 43.5 | 15.8 | 9.4 | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.02 mg/kg

| DOG NO. AND SEX. | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO- GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|---------------------|---|-------------|-------------------|-------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|---|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC | |
| 4-WEEKS | | | | | | | | | | | | | | | |
| 56 (M) | 7.55 | 0.4 | 49.0 | 16.8 | 10.6 | 0 | 0 | 0 | 69 | 29 | 0 | 2 | 0 | 0 | 0 |
| 57 (M) | 7.84 | 0.4 | 46.5 | 16.4 | 8.8 | 0 | 0 | 0 | 65 | 30 | 1 | 4 | 0 | 0 | 0 |
| 58 (M) | 7.27 | 0.6 | 44.0 | 15.5 | 10.4 | 0 | 0 | 4 | 39 | 47 | 3 | 7 | 0 | 0 | 0 |
| MEAN | 7.55 | 0.5 | 46.5 | 16.2 | 9.9 | | | | | | | | | | |
| 8-WEEKS | | | | | | | | | | | | | | | |
| 56 (M) | 7.68 | 0.1 | 47.0 | 16.3 | 12.0 | 0 | 0 | 0 | 59 | 35 | 3 | 3 | 0 | 0 | 0 |
| 57 (M) | 7.73 | 0.2 | 45.0 | 15.7 | 8.3 | 0 | 0 | 0 | 73 | 20 | 5 | 2 | 0 | 0 | 0 |
| 58 (M) | 7.18 | 0.1 | 44.5 | 15.4 | 12.4 | 0 | 0 | 0 | 44 | 51 | 0 | 5 | 0 | 0 | 0 |
| MEAN | 7.53 | 0.1 | 45.5 | 15.3 | 10.9 | | | | | | | | | | |
| 13-WEEKS | | | | | | | | | | | | | | | |
| 56 (M) | 7.33 | 0.2 | 45.0 | 15.9 | 11.3 | 0 | 0 | 0 | 76 | 16 | 6 | 2 | 0 | 0 | 0 |
| 57 (M) | 7.33 | 0.2 | 44.0 | 15.6 | 8.3 | 0 | 0 | 0 | 79 | 17 | 2 | 2 | 0 | 0 | 0 |
| 53 (M) | 7.31 | 0.6 | 45.0 | 15.6 | 9.9 | 0 | 0 | 1 | 46 | 47 | 2 | 4 | 0 | 0 | 0 |
| MEAN | 7.32 | 0.3 | 44.5 | 15.7 | 9.8 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁵) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| 3 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 39 (F) | 8.53 | 0.8 | 51.5 | 18.7 | 8.7 | 0 | 0 | 0 | 45 | 49 | 2 | 4 | 0 | 0 |
| 44 (F) | 6.51 | 0.8 | 42.0 | 15.4 | 9.5 | 0 | 0 | 0 | 51 | 46 | 1 | 2 | 0 | 0 |
| 51 (F) | 7.42 | 0.4 | 46.0 | 16.9 | 8.7 | 0 | 0 | 0 | 38 | 51 | 1 | 10 | 0 | 0 |
| MEAN | 7.49 | 0.7 | 46.5 | 17.0 | 9.0 | | | | | | | | | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | | | | |
| 39 (F) | 8.32 | 1.4 | 48.5 | 17.3 | 9.2 | 0 | 0 | 0 | 64 | 31 | 0 | 5 | 0 | 0 |
| 44 (F) | 6.38 | 1.6 | 42.5 | 14.7 | 9.6 | 0 | 0 | 0 | 69 | 31 | 0 | 0 | 0 | 0 |
| 51 (F) | 6.98 | 2.2 | 45.0 | 15.7 | 9.7 | 0 | 0 | 0 | 44 | 46 | 0 | 9 | 0 | 0 |
| MEAN | 7.23 | 1.7 | 45.5 | 15.9 | 9.5 | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | RBC/mm ³ (x 10 ⁶) | RETIC. % | CELL VOL. % | HEMO - GLOBIN gm % | WBC/mm ³ (x 10 ³) | DIFFERENTIAL (%)* | | | | | | | | | |
|--------------------|---|-------------|-------------------|--------------------------|---|-------------------|-----|---|-----|-----|----|----|----|-----|----|
| | | | | | | My | Juv | | Ban | Seg | Ly | Mo | Eo | Bas | UC |
| | | | | | | | | | | | | | | | |
| <u>4-WEEKS</u> | | | | | | | | | | | | | | | |
| 39 (F) | 8.55 | 1.8 | 52.0 | 18.5 | 8.6 | 0 | 0 | 0 | 0 | 65 | 28 | 6 | 1 | 0 | 0 |
| 44 (F) | 7.48 | 0.6 | 51.5 | 17.7 | 8.3 | 0 | 0 | 0 | 0 | 61 | 34 | 4 | 1 | 0 | 0 |
| 51 (F) | 7.55 | 0.2 | 49.0 | 17.2 | 12.1 | 0 | 0 | 0 | 0 | 61 | 31 | 3 | 5 | 0 | 0 |
| MEAN | 7.86 | 0.9 | 51.0 | 17.8 | 9.7 | | | | | | | | | | |
| <u>8-WEEKS</u> | | | | | | | | | | | | | | | |
| 39 (F) | 7.68 | 0.6 | 48.0 | 17.2 | 11.0 | 0 | 0 | 1 | 51 | 40 | 3 | 5 | 0 | 0 | 0 |
| 44 (F) | 7.30 | 0.4 | 46.5 | 16.1 | 10.8 | 0 | 0 | 0 | 66 | 33 | 1 | 0 | 0 | 0 | 0 |
| 51 (F) | 7.32 | 0.6 | 45.0 | 16.2 | 10.8 | 0 | 0 | 0 | 53 | 45 | 1 | 1 | 0 | 0 | 0 |
| MEAN | 7.43 | 0.5 | 46.5 | 16.5 | 10.9 | | | | | | | | | | |
| <u>13-WEEKS</u> | | | | | | | | | | | | | | | |
| 39 (F) | 7.43 | 0.4 | 47.5 | 16.8 | 7.5 | 0 | 0 | 0 | 63 | 27 | 5 | 5 | 0 | 0 | 0 |
| 44 (F) | 7.11 | 0.6 | 46.0 | 16.0 | 9.9 | 0 | 0 | 0 | 81 | 14 | 5 | 0 | 0 | 0 | 0 |
| 51 (F) | 6.53 | 0.6 | 43.0 | 15.0 | 9.7 | 0 | 0 | 0 | 44 | 55 | 1 | 0 | 0 | 0 | 0 |
| MEAN | 7.02 | 0.5 | 45.5 | 15.9 | 9.0 | | | | | | | | | | |

*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils; UC - Unclassified.

LITTON BIONETICS, INC.

TABLE 3

HEMATOLOG - HEINZ BODIES

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|--------------------|----------------|--------------|---------------------------------|----------|-----------|
| | <u>3 Wks</u> | <u>2 Wks</u> | <u>4</u> | <u>8</u> | <u>13</u> |
| | <u>CONTROL</u> | | | | |
| 65 (M) | Neg | Neg | Neg | Neg | Neg |
| 66 (M) | Neg | Neg | Neg | Neg | Neg |
| 72 (M) | Neg | Neg | Neg | Neg | Neg |
| 37 (F) | Neg | Neg | Neg | Neg | Pos |
| 43 (F) | Neg | Neg | Neg | Neg | Neg |
| 45 (F) | Neg | Neg | Neg | Neg | Neg |

LITTON BIONETICS, INC.

TABLE 3 (continued)

HEMATOLOGY - HEINZ BODIES

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|------------------------|----------|-------|---------------------------------|-----|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>RDX - 10 mg/kg</u> | | | | | |
| 55 (M) | Neg | Neg | Neg | Neg | Neg |
| 73 (M) | Neg | Neg | Neg | Neg | Neg |
| 74 (M) | Neg | Neg | Neg | Neg | Neg |
| 49 (F) | Neg | Neg | Neg | Neg | Neg |
| 50 (F) | Neg | Neg | Neg | Neg | Neg |
| 76 (F) | Neg | Neg | Neg | Neg | Neg |
| <u>RDX - 1 mg/kg</u> | | | | | |
| 64 (M) | Neg | Neg | Neg | Neg | Pos |
| 68 (M) | Neg | Neg | Neg | Neg | Neg |
| 75 (M) | Dead | | | | |
| 40 (F) | Neg | Neg | Neg | Neg | Neg |
| 41 (F) | Neg | Neg | Neg | Pos | Neg |
| 54 (F) | Neg | Neg | Pos | Neg | Neg |
| <u>RDX - 0.1 mg/kg</u> | | | | | |
| 59 (M) | Neg | Neg | Neg | Neg | Neg |
| 61 (M) | Neg | Neg | Neg | Neg | Neg |
| 67 (M) | Neg | Neg | Neg | Neg | Neg |
| 35 (F) | Neg | Neg | Neg | Neg | Neg |
| 36 (F) | Neg | Neg | Neg | Pos | Neg |
| 53 (F) | Neg | Neg | Neg | Neg | Neg |

TABLE 3 (continued)

HEMATOLOGY - HEINZ BODIES

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|-------------------------|----------|-------|---------------------------------|-----|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>TNT - 1 mg/kg</u> | | | | | |
| 69 (M) | Neg | Neg | Neg | Neg | Neg |
| 70 (M) | Neg | Neg | Neg | Neg | Neg |
| 71 (M) | Neg | Neg | Pos | Neg | Neg |
| 46 (F) | Neg | Neg | Neg | Neg | Pos |
| 47 (F) | Neg | Neg | Neg | Neg | Neg |
| 48 (F) | Neg | Neg | Pos | Neg | Neg |
| <u>TNT - 0.1 mg/kg</u> | | | | | |
| 60 (M) | Neg | Neg | Neg | Neg | Pos |
| 62 (M) | Neg | Neg | Neg | Neg | Neg |
| 63 (M) | Neg | Neg | Neg | Neg | Neg |
| 42 (F) | Neg | Neg | Neg | Neg | Neg |
| 38 (F) | Neg | Neg | Neg | Neg | Neg |
| 52 (F) | Neg | Neg | Neg | Neg | Neg |
| <u>TNT - 0.02 mg/kg</u> | | | | | |
| 56 (M) | Neg | Neg | Neg | Neg | Neg |
| 57 (M) | Neg | Neg | Neg | Neg | Neg |
| 58 (M) | Neg | Neg | Neg | Neg | Neg |
| 39 (F) | Neg | Neg | Neg | Neg | Neg |
| 44 (F) | Neg | Neg | Neg | Neg | Neg |
| 51 (F) | Neg | Neg | Neg | Neg | Neg |

LITTON BIONETICS, INC.

TABLE 4
HEMATOLOGY - RED CELL FRAGILITY

CONTROL

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 65 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.0 |
| 66 (M) | Max. | .35 | 100 |
| | Min. | .55 | 0.8 |
| 72 (M) | Max. | .35 | 100 |
| | Min. | .55 | 4.4 |
| MEAN | Max. | .33 | 100 |
| | Min. | .55 | 2.1 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 65 (M) | Max. | .30 | 100 |
| | Min. | .65 | 1.0 |
| 66 (M) | Max. | .40 | 100 |
| | Min. | .55 | 5.4 |
| 72 (M) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .23 | 100 |
| | Min. | .60 | 2.5 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

CONTROL

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 65 (M) | Max. | .30 | 100 |
| | Min. | .50 | 3.7 |
| 66 (M) | Max. | 0.0 | 100 |
| | Min. | .50 | 22.0 |
| 72 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.1 |
| MEAN | Max. | .20 | 100 |
| | Min. | .52 | 8.9 |
| | | <u>8-WEEKS</u> | |
| 65 (M) | Max. | .30 | 100 |
| | Min. | .50 | 5.1 |
| 66 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.7 |
| 72 (M) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| MEAN | Max. | .22 | 100 |
| | Min. | .53 | 2.9 |
| | | <u>13-WEEKS</u> | |
| 65 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 2.1 |
| 66 (M) | Max. | .35 | 100 |
| | Min. | .55 | 1.8 |
| 72 (M) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| MEAN | Max. | .23 | 100 |
| | Min. | .58 | 1.6 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

CONTROL

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 37 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.8 |
| 43 (F) | Max. | .30 | 100 |
| | Min. | .65 | 2.7 |
| 45 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .33 | 100 |
| | Min. | .63 | 1.8 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 37 (F) | Max. | 0.0 | |
| | Min. | .55 | |
| 43 (F) | Max. | 0.0 | 100 |
| | Min. | .50 | 2.2 |
| 45 (F) | Max. | .30 | 100 |
| | Min. | .55 | 0.9 |
| MEAN | Max. | .10 | 100 |
| | Min. | .53 | 1.9 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

CONTROL

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 37 (F) | Max. | 0.0 | 100 |
| | Min. | .50 | 9.6 |
| 43 (F) | Max. | .30 | 100 |
| | Min. | .60 | 1.7 |
| 45 (F) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .20 | 100 |
| | Min. | .57 | 4.1 |
| | | <u>8-WEEKS</u> | |
| 37 (F) | Max. | .40 | 100 |
| | Min. | .55 | 4.0 |
| 43 (F) | Max. | .40 | 100 |
| | Min. | .60 | 2.4 |
| 45 (F) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .37 | 100 |
| | Min. | .58 | 2.5 |
| | | <u>13-WEEKS</u> | |
| 37 (F) | Max. | .30 | 100 |
| | Min. | .60 | 2.1 |
| 43 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.1 |
| 45 (F) | Max. | .30 | 100 |
| | Min. | .55 | 2.1 |
| MEAN | Max. | .32 | 100 |
| | Min. | .60 | 1.8 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

RDX - 10 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 55 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.8 |
| 73 (M) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| 74 (M) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| MEAN | Max. | .32 | 100 |
| | Min. | .57 | 1.6 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 55 (M) | Max. | .35 | 100 |
| | Min. | .50 | 8.8 |
| 73 (M) | Max. | .30 | 100 |
| | Min. | .60 | 0.6 |
| 74 (M) | Max. | 0.0 | 100 |
| | Min. | .65 | 1.0 |
| MEAN | Max. | .22 | 100 |
| | Min. | .53 | 3.5 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

RDX - 10 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 55 (M) | Max. | .35 | 100 |
| | Min. | .50 | 3.9 |
| 73 (M) | Max. | .35 | 100 |
| | Min. | .65 | 1.9 |
| 74 (M) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .33 | 100 |
| | Min. | .58 | 2.3 |
| | | <u>8-WEEKS</u> | |
| 55 (M) | Max. | .35 | 100 |
| | Min. | .65 | 0.5 |
| 73 (M) | Max. | 0.0 | 100 |
| | Min. | .60 | 0.9 |
| 74 (M) | Max. | .35 | 100 |
| | Min. | .65 | 2.1 |
| MEAN | Max. | .23 | 100 |
| | Min. | .63 | 1.2 |
| | | <u>13-WEEKS</u> | |
| 55 (M) | Max. | .30 | 100 |
| | Min. | .50 | 1.8 |
| 73 (M) | Max. | .48 | 100 |
| | Min. | .65 | 1.0 |
| 74 (M) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| MEAN | Max. | .38 | 100 |
| | Min. | .57 | 1.3 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

RDX - 10 mg/kg;

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|-------------------------|---------------|--------------------|
| | <u>3 WEEKS PRE-DRUG</u> | | |
| 49 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 50 (F) | Max. | 0.0 | 100 |
| | Min. | .60 | 0.9 |
| 76 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.1 |
| MEAN | Max. | .23 | 100 |
| | Min. | .58 | 1.0 |
| | <u>2 WEEKS PRE-DRUG</u> | | |
| 49 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 50 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 76 (F) | Max. | .30 | 100 |
| | Min. | .65 | 1.1 |
| MEAN | Max. | .33 | 100 |
| | Min. | .60 | 1.0 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

RDX - 10 mg/kg

| <u>DOG NO. AND SEX</u> | <u>% NaCl</u> | | <u>% HEMOLYSIS</u> |
|----------------------------|-----------------|-----|--------------------|
| | <u>4-WEEKS</u> | | |
| 49 (F) | Max. | .30 | 100 |
| | Min. | .65 | 1.0 |
| 50 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.1 |
| 76 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .33 | 100 |
| | Min. | .62 | 1.0 |
| | <u>8-WEEKS</u> | | |
| | | | |
| 49 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 50 (F) | Max. | 0.0 | 100 |
| | Min. | .65 | 1.0 |
| 76 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.7 |
| MEAN | Max. | .23 | 100 |
| | Min. | .62 | 1.2 |
| | <u>13-WEEKS</u> | | |
| | | | |
| 49 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 50 (F) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| 76 (F) | Max. | .35 | 100 |
| | Min. | .50 | 5.4 |
| MEAN | Max. | .35 | 100 |
| | Min. | .55 | 2.8 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

RDX - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 64 (M) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| 68 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 0.9 |
| 75 (M) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .23 | 100 |
| | Min. | .58 | 0.9 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 64 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.0 |
| 68 (M) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.0 |
| 75 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.9 |
| MEAN | Max. | .12 | 100 |
| | Min. | .58 | 1.3 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

RDX - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 64 (M) | Max. | .30 | 100 |
| | Min. | .50 | 1.9 |
| 68 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.0 |
| 75 (M) | Max. | - | - |
| | Min. | - | - |
| MEAN | Max. | .15 | 100 |
| | Min. | .53 | 1.5 |
| | | <u>8-WEEKS</u> | |
| 64 (M) | Max. | .30 | 100 |
| | Min. | .55 | 0.9 |
| 68 (M) | Max. | .30 | 100 |
| | Min. | .65 | 0.9 |
| 75 (M) | Max. | - | - |
| | Min. | - | - |
| MEAN | Max. | .30 | 100 |
| | Min. | .60 | 0.9 |
| | | <u>13-WEEKS</u> | |
| 64 (M) | Max. | .30 | 100 |
| | Min. | .50 | 1.0 |
| 68 (M) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| 75 (M) | Max. | - | - |
| | Min. | - | - |
| MEAN | Max. | .30 | 100 |
| | Min. | .55 | 1.0 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

RDX - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|-------------------------|---------------|--------------------|
| | <u>3 WEEKS PRE-DRUG</u> | | |
| 40 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 3.4 |
| 41 (F) | Max. | .40 | 100 |
| | Min. | .65 | 1.2 |
| 54 (F) | Max. | .30 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .23 | 100 |
| | Min. | .60 | 1.8 |
| | <u>2 WEEKS PRE-DRUG</u> | | |
| 40 (F) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| 41 (F) | Max. | .35 | 100 |
| | Min. | .55 | 5.1 |
| 54 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| MEAN | Max. | .35 | 100 |
| | Min. | .57 | 2.7 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

RDX - 1 mg/kg

| <u>DOG NO. AND SEX</u> | <u>% NaCl</u> | | <u>% HEMOLYSIS</u> |
|----------------------------|-----------------|-----|--------------------|
| | <u>4-WEEKS</u> | | |
| 40 (F) | Max. | .35 | 100 |
| | Min. | .55 | 3.9 |
| 41 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.2 |
| 54 (F) | Max. | .40 | 100 |
| | Min. | .55 | 3.8 |
| MEAN | Max. | .37 | 100 |
| | Min. | .55 | 3.0 |
| | <u>8-WEEKS</u> | | |
| | | | |
| 40 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.2 |
| 41 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.1 |
| 54 (F) | Max. | 0.0 | 100 |
| | Min. | .65 | 1.0 |
| MEAN | Max. | .23 | 100 |
| | Min. | .63 | 1.4 |
| | <u>13-WEEKS</u> | | |
| | | | |
| 40 (F) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.9 |
| 41 (F) | Max. | .35 | 100 |
| | Min. | .50 | 2.3 |
| 54 (F) | Max. | .35 | 100 |
| | Min. | .50 | 15.5 |
| MEAN | Max. | .23 | 100 |
| | Min. | .53 | 6.6 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

RDX - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 59 (M) | Max. | .35 | 100 |
| | Min. | .65 | 0.4 |
| 61 (M) | Max. | .35 | 100 |
| | Min. | .55 | 3.0 |
| 67 (M) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| MEAN | Max. | .35 | 100 |
| | Min. | .58 | 1.5 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 59 (M) | Max. | .30 | 100 |
| | Min. | .60 | 1.0 |
| 61 (M) | Max. | 0.0 | 100 |
| | Min. | .65 | 1.0 |
| 67 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.2 |
| MEAN | Max. | .20 | 100 |
| | Min. | .60 | 1.1 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

RDX - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 59 (M) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 61 (M) | Max. | .40 | 100 |
| | Min. | .60 | 1.9 |
| 67 (M) | Max. | .35 | 100 |
| | Min. | .55 | 0.7 |
| MEAN | Max. | .37 | 100 |
| | Min. | .57 | 1.2 |
| | | <u>8-WEEKS</u> | |
| 59 (M) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 61 (M) | Max. | .30 | 100 |
| | Min. | .55 | 3.1 |
| 67 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 2.3 |
| MEAN | Max. | .22 | 100 |
| | Min. | .57 | 2.5 |
| | | <u>13-WEEKS</u> | |
| 59 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 2.0 |
| 61 (M) | Max. | .40 | 100 |
| | Min. | .65 | 1.0 |
| 67 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.1 |
| MEAN | Max. | .23 | 100 |
| | Min. | .58 | 1.4 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

RDX - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|-------------------------|---------------|--------------------|
| | <u>3 WEEKS PRE-DRUG</u> | | |
| 35 (F) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.6 |
| 36 (F) | Max. | .30 | 100 |
| | Min. | .60 | 0.6 |
| 53 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .22 | 100 |
| | Min. | .60 | 1.0 |
| | <u>2 WEEKS PRE-DRUG</u> | | |
| 35 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 6.6 |
| 36 (F) | Max. | .35 | 100 |
| | Min. | .55 | 2.3 |
| 53 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .23 | 100 |
| | Min. | .57 | 3.3 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

RDX - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 35 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.9 |
| 36 (F) | Max. | .35 | 100 |
| | Min. | .50 | 16.3 |
| 53 (F) | Max. | .30 | 100 |
| | Min. | .50 | 7.5 |
| MEAN | Max. | .22 | 100 |
| | Min. | .52 | 8.6 |
| | | <u>8-WEEKS</u> | |
| 35 (F) | Max. | .35 | 100 |
| | Min. | .50 | 12.0 |
| 36 (F) | Max. | .30 | 100 |
| | Min. | .55 | 1.0 |
| 53 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| MEAN | Max. | .33 | 100 |
| | Min. | .57 | 4.7 |
| | | <u>13-WEEKS</u> | |
| 35 (F) | Max. | .30 | 100 |
| | Min. | .65 | 0.9 |
| 36 (F) | Max. | .30 | 100 |
| | Min. | .45 | 17.7 |
| 53 (F) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| MEAN | Max. | .32 | 100 |
| | Min. | .55 | 6.9 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 69 (M) | Max. | .40 | 100 |
| | Min. | .60 | 1.1 |
| 70 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.8 |
| 71 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.9 |
| MEAN | Max. | .37 | 100 |
| | Min. | .60 | 1.6 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 69 (M) | Max. | 0.0 | 100 |
| | Min. | .65 | 2.2 |
| 70 (M) | Max. | 0.0 | 100 |
| | Min. | .55 | 8.8 |
| 71 (M) | Max. | 0.0 | 100 |
| | Min. | .65 | 0.6 |
| MEAN | Max. | 0.0 | 100 |
| | Min. | .62 | 3.9 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

TNT - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------|--------------------|
| | | <u>4 - WEEKS</u> | |
| 69 (M) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| 70 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.8 |
| 71 (M) | Max. | .35 | 100 |
| | Min. | .55 | 2.0 |
| MEAN | Max. | .35 | 100 |
| | Min. | .60 | 1.6 |
| | | <u>8 - WEEKS</u> | |
| 69 (M) | Max. | .35 | 100 |
| | Min. | .55 | 2.1 |
| 70 (M) | Max. | .35 | 100 |
| | Min. | .55 | 0.9 |
| 71 (M) | Max. | .30 | 100 |
| | Min. | .50 | 4.0 |
| MEAN | Max. | .33 | 100 |
| | Min. | .53 | 2.3 |
| | | <u>13 - WEEKS</u> | |
| 69 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.1 |
| 70 (M) | Max. | .30 | 100 |
| | Min. | .50 | 3.0 |
| 71 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.0 |
| MEAN | Max. | .30 | 100 |
| | Min. | .53 | 1.7 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

TNT - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .45 | 49.0 |
| 47 (F) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| 48 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 2.5 |
| MEAN | Max. | .23 | 100 |
| | Min. | .55 | 17.5 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 46 (F) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.0 |
| 47 (F) | Max. | 0.0 | 100 |
| | Min. | .50 | 6.3 |
| 48 (F) | Max. | .30 | 100 |
| | Min. | .50 | 5.2 |
| MEAN | Max. | .10 | 100 |
| | Min. | .53 | 4.2 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------|--------------------|
| | | <u>4 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 47 (F) | Max. | .30 | 100 |
| | Min. | .55 | 2.0 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .55 | 0.8 |
| MEAN | Max. | .33 | 100 |
| | Min. | .57 | 1.6 |
| | | <u>8 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .55 | 4.4 |
| 47 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .35 | 100 |
| | Min. | .58 | 1.3 |
| | | <u>13 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .50 | 2.1 |
| 47 (F) | Max. | 0.0 | 100 |
| | Min. | .50 | 3.5 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.7 |
| MEAN | Max. | .23 | 100 |
| | Min. | .52 | 2.4 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------|--------------------|
| | | <u>4 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 47 (F) | Max. | .30 | 100 |
| | Min. | .55 | 2.0 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .55 | 0.8 |
| MEAN | Max. | .33 | 100 |
| | Min. | .57 | 1.6 |
| | | <u>8 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .55 | 4.4 |
| 47 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .35 | 100 |
| | Min. | .58 | 1.3 |
| | | <u>13 - WEEKS</u> | |
| 46 (F) | Max. | .35 | 100 |
| | Min. | .50 | 2.1 |
| 47 (F) | Max. | 0.0 | 100 |
| | Min. | .50 | 3.5 |
| 48 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.7 |
| MEAN | Max. | .23 | 100 |
| | Min. | .52 | 2.4 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | <u>% NaCl</u> | | <u>% HEMOLYSIS</u> |
|----------------------------|-------------------------|-----|--------------------|
| | <u>3 WEEKS PRE-DRUG</u> | | |
| 60 (M) | Max. | .30 | 100 |
| | Min. | .55 | 0.9 |
| 62 (M) | Max. | .35 | 100 |
| | Min. | .55 | 2.1 |
| 63 (M) | Max. | .30 | 100 |
| | Min. | .50 | 3.0 |
| MEAN | Max. | .32 | 100 |
| | Min. | .53 | 2.0 |
| | <u>2 WEEKS PRE-DRUG</u> | | |
| | | | |
| 60 (M) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 62 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.5 |
| 63 (M) | Max. | .5 | 100 |
| | Min. | .65 | 0.5 |
| MEAN | Max. | .33 | 100 |
| | Min. | .60 | 1.3 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RBC CELL FRAGILITY

TNT - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>%NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 60 (M) | Max. | .35 | 100 |
| | Min. | .50 | 6.8 |
| 62 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.0 |
| 63 (M) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .33 | 100 |
| | Min. | .55 | 2.9 |
| | | <u>8-WEEKS</u> | |
| 60 (M) | Max. | .35 | 100 |
| | Min. | .50 | 3.1 |
| 62 (M) | Max. | .30 | 100 |
| | Min. | .65 | 1.0 |
| 63 (M) | Max. | 0.0 | 100 |
| | Min. | .50 | 3.9 |
| MEAN | Max. | .22 | 100 |
| | Min. | .55 | 2.7 |
| | | <u>13-WEEKS</u> | |
| 60 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.1 |
| 62 (M) | Max. | 0.0 | 100 |
| | Min. | .50 | 4.3 |
| 63 (M) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| MEAN | Max. | .23 | 100 |
| | Min. | .58 | 2.1 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 42 (F) | Max. | .30 | 100 |
| | Min. | .55 | 1.6 |
| 38 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 52 (F) | Max. | .30 | 100 |
| | Min. | .65 | 0.9 |
| MEAN | Max. | .32 | 100 |
| | Min. | .60 | 1.5 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 42 (F) | Max. | .30 | 100 |
| | Min. | .55 | 2.0 |
| 38 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.0 |
| 52 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.2 |
| MEAN | Max. | .22 | 100 |
| | Min. | .57 | 1.7 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.1 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 42 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 38 (F) | Max. | .40 | 100 |
| | Min. | .55 | 4.9 |
| 52 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| MEAN | Max. | .37 | 100 |
| | Min. | .57 | 2.3 |
| | | <u>8-WEEKS</u> | |
| 42 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.1 |
| 38 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 52 (F) | Max. | .35 | 100 |
| | Min. | .55 | 0.5 |
| MEAN | Max. | .35 | 100 |
| | Min. | .58 | 0.9 |
| | | <u>13-WEEKS</u> | |
| 42 (F) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 38 (F) | Max. | .35 | 100 |
| | Min. | .50 | 4.4 |
| 52 (F) | Max. | .35 | 100 |
| | Min. | .50 | 7.5 |
| MEAN | Max. | .35 | 100 |
| | Min. | .53 | 4.3 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.02 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-------------------------|--------------------|
| | | <u>3 WEEKS PRE-DRUG</u> | |
| 56 (M) | Max. | .30 | 100 |
| | Min. | .55 | 2.0 |
| 57 (M) | Max. | .40 | 100 |
| | Min. | .55 | 2.1 |
| 58 (M) | Max. | .30 | 100 |
| | Min. | .50 | 2.2 |
| MEAN | Max. | .33 | 100 |
| | Min. | .53 | 2.1 |
| | | <u>2 WEEKS PRE-DRUG</u> | |
| 56 (M) | Max. | .35 | 100 |
| | Min. | .60 | 1.0 |
| 57 (M) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.1 |
| 58 (M) | Max. | .30 | 100 |
| | Min. | .50 | 1.2 |
| MEAN | Max. | .22 | 100 |
| | Min. | .57 | 1.1 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.02 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 56 (M) | Max. | .35 | 100 |
| | Min. | .65 | 1.0 |
| 57 (M) | Max. | .35 | 100 |
| | Min. | .55 | 3.1 |
| 58 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.1 |
| MEAN | Max. | .33 | 100 |
| | Min. | .58 | 1.7 |
| | | <u>8-WEEKS</u> | |
| 56 (M) | Max. | .35 | 100 |
| | Min. | .60 | 2.1 |
| 57 (M) | Max. | .35 | 100 |
| | Min. | .55 | 7.1 |
| 58 (M) | Max. | .30 | 100 |
| | Min. | .55 | 1.1 |
| MEAN | Max. | .33 | 100 |
| | Min. | .57 | 3.4 |
| | | <u>13-WEEKS</u> | |
| 56 (M) | Max. | .30 | 100 |
| | Min. | .50 | 4.3 |
| 57 (M) | Max. | .30 | 100 |
| | Min. | .65 | 1.0 |
| 58 (M) | Max. | .30 | 100 |
| | Min. | .55 | 2.1 |
| MEAN | Max. | .30 | 100 |
| | Min. | .55 | 2.5 |

LITTON BIONETICS, INC.

TABLE 4 (continued)

HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.02 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|-------------------------|---------------|--------------------|
| | <u>3 WEEKS PRE-DRUG</u> | | |
| 39 (F) | Max. | .35 | 100 |
| | Min. | .60 | 0.9 |
| 44 (F) | Max. | .35 | 100 |
| | min. | .60 | 1.1 |
| 51 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| MEAN | Max. | .35 | 100 |
| | Min. | .58 | 1.0 |
| | <u>2 WEEKS PRE-DRUG</u> | | |
| 39 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| 44 (F) | Max. | .30 | 100 |
| | Min. | .55 | 2.3 |
| 51 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.1 |
| MEAN | Max. | .33 | 100 |
| | Min. | .55 | 1.5 |

LITTON BIONETICS, INC.

TABLE 4 (continued)
 HEMATOLOGY - RED CELL FRAGILITY

TNT - 0.02 mg/kg

| <u>DOG NO. AND SEX</u> | | <u>% NaCl</u> | <u>% HEMOLYSIS</u> |
|----------------------------|------|-----------------|--------------------|
| | | <u>4-WEEKS</u> | |
| 39 (F) | Max. | 0.0 | 100 |
| | Min. | .55 | 1.0 |
| 44 (F) | Max. | 0.0 | 100 |
| | Min. | .60 | 1.9 |
| 51 (F) | Max. | .35 | 100 |
| | Min. | .55 | 1.0 |
| MEAN | Max. | .12 | 100 |
| | Min. | .57 | 1.3 |
| | | <u>8-WEEKS</u> | |
| 39 (F) | Max. | C L O T T E D | |
| | Min. | | |
| 44 (F) | Max. | .30 | 100 |
| | Min. | .65 | 2.1 |
| 51 (F) | Max. | .30 | 100 |
| | Min. | .50 | 3.2 |
| MEAN | Max. | .30 | 100 |
| | Min. | .58 | 2.7 |
| | | <u>13-WEEKS</u> | |
| 39 (F) | Max. | .35 | 100 |
| | Min. | .60 | 2.0 |
| 44 (F) | Max. | .35 | 100 |
| | Min. | .50 | 19.5 |
| 51 (F) | Max. | .30 | 100 |
| | Min. | .45 | 9.3 |
| MEAN | Max. | .33 | 100 |
| | Min. | .52 | 10.3 |

LITTON BIONETICS, INC.

TABLE 5
BLOOD BIOCHEMISTRY

CONTROL

| DOG NO. AND SEX | $\frac{\text{Na}}{\text{mEq/L}}$ | $\frac{\text{K}}{\text{mEq/L}}$ | $\frac{\text{Cl}}{\text{mEq/L}}$ | $\frac{\text{GLU-COSE}}{\text{mg \%}}$ | $\frac{\text{BUN}}{\text{mg \%}}$ | $\frac{\text{TOTALPROTEIN}}{\text{gm \%}}$ | $\frac{\text{TOTALBILI-RUBIN}}{\text{mg \%}}$ | $\frac{\text{SGOT}}{\text{I.U.}}$ | $\frac{\text{SGPT}}{\text{units}}$ | $\frac{\text{ALK.PHOS.}}{\text{I.U.}}$ |
|--------------------|----------------------------------|---------------------------------|----------------------------------|--|-----------------------------------|--|---|-----------------------------------|------------------------------------|--|
| | | | | | | | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | |
| 65 (M) | 150 | 4.5 | 103 | 106 | 13 | 6.5 | 0.10 | 41 | 27 | 40 |
| 66 (M) | 150 | 5.3 | 103 | 104 | 15 | 6.3 | 0.10 | 48 | 33 | 72 |
| 72 (M) | 153 | 5.5 | 106 | 98 | 14 | 6.6 | 0.15 | 39 | 42 | 40 |
| MEAN | 151 | 5.1 | 104 | 103 | 14 | 6.5 | 0.12 | 43 | 34 | 51 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | |
| 65 (M) | 148 | 4.9 | 100 | 112 | 14 | 6.4 | 0.30 | 39 | 29 | 51 |
| 66 (M) | 149 | 6.4 | 100 | 119 | 14 | 6.1 | 0.30 | 36 | 42 | 75 |
| 72 (M) | 148 | 5.1 | 104 | 98 | 13 | 6.3 | 0.30 | 22 | 25 | 43 |
| MEAN | 148 | 5.5 | 101 | 110 | 14 | 6.3 | 0.30 | 32 | 32 | 56 |

TABLE - (continued)

BLOOD BIOCHEMISTRY

CONTROL

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN | TOTAL BILI- RUBIN | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|------------------|-------------------------|--------------|---------------|-----------------------|
| | | | | | | gm % | mg % | | | |
| <u>4-WEEKS</u> | | | | | | | | | | |
| 65 (M) | 149 | 4.5 | 107 | 101 | 17 | 6.3 | 0.10 | 54 | 40 | 51 |
| 66 (M) | 149 | 5.3 | 106 | 88 | 17 | 6.4 | 0.35 | 42 | 33 | 57 |
| 72 (M) | 148 | 5.2 | 105 | 92 | 15 | 6.1 | 0.10 | 30 | 22 | 38 |
| MEAN | 149 | 5.0 | 106 | 94 | 16 | 6.3 | 0.18 | 42 | 32 | 49 |
| <u>8-WEEKS</u> | | | | | | | | | | |
| 65 (M) | 149 | 4.7 | 107 | 73 | 23 | 6.5 | 0.10 | 19 | 26 | 70 |
| 66 (M) | 150 | 5.0 | 105 | 58 | 21 | 6.6 | 0.20 | 26 | 35 | 57 |
| 72 (M) | 150 | 5.5 | 102 | 80 | 23 | 7.1 | 0.20 | 26 | 24 | 38 |
| MEAN | 150 | 5.1 | 105 | 70 | 22 | 6.7 | 0.17 | 24 | 28 | 55 |
| <u>13-WEEKS</u> | | | | | | | | | | |
| 65 (M) | 146 | 4.5 | 112 | 107 | 26 | 7.1 | 0.90 | 21 | 43 | 51 |
| 66 (M) | 146 | 4.7 | 111 | 100 | 21 | 6.4 | 0.55 | 37 | 40 | 51 |
| 72 (M) | 147 | 4.8 | 113 | 104 | 20 | 6.6 | 0.35 | 21 | 36 | 33 |
| MEAN | 146 | 4.7 | 112 | 104 | 22 | 6.7 | 0.60 | 26 | 40 | 45 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

| CONTROL | | | | | | | | | | |
|-------------------------|--------------------|-------------------|--------------------|-----------------------------|--------------------|---------------------------------|--|---------------------|----------------------|------------------------------|
| DOG NO. AND SEX | Na <u>mEq/L</u> | K <u>mEq/L</u> | Cl <u>mEq/L</u> | GLU- COSE <u>mg %</u> | BUN <u>mg %</u> | TOTAL PROTEIN <u>gm %</u> | TOTAL BILI- RUBIN <u>mg %</u> | SGOT <u>I.U.</u> | SGPT <u>units</u> | ALK. PHOS. <u>I.U.</u> |
| | | | | | | | | | | |
| | | | | | | | | | | |
| <u>3 WEEKS PRE-DRUG</u> | | | | | | | | | | |
| 37 (F) | 148 | 4.1 | 102 | 82 | 19 | 6.8 | 0.15 | 51 | 42 | 66 |
| 43 (F) | 148 | 4.6 | 107 | 108 | 22 | 6.5 | 0.10 | 45 | 42 | 69 |
| 45 (F) | 148 | 4.4 | 105 | 92 | 17 | 6.1 | 0.10 | 39 | 33 | 66 |
| MEAN | 148 | 4.4 | 105 | 94 | 19 | 6.5 | 0.12 | 45 | 39 | 67 |
| <u>2 WEEKS PRE-DRUG</u> | | | | | | | | | | |
| 37 (F) | 148 | 4.8 | 106 | 82 | 15 | 6.9 | 0.30 | 30 | 37 | 43 |
| 43 (F) | 147 | 5.2 | 109 | 90 | 21 | 6.1 | 0.15 | 33 | 37 | 57 |
| 45 (F) | 146 | 5.3 | 105 | 94 | 15 | 6.7 | 0.20 | 30 | 29 | 69 |
| MEAN | 147 | 5.1 | 107 | 89 | 17 | 6.6 | 0.22 | 31 | 34 | 56 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

CONTROL

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | |
| <u>4-WEEKS</u> | | | | | | | | | | |
| 37 (F) | 149 | 5.8 | 105 | 88 | 17 | 6.8 | 0.10 | 42 | 26 | 84 |
| 43 (F) | 147 | 5.8 | 105 | 96 | 22 | 6.6 | 0.10 | 30 | 22 | 75 |
| 45 (F) | 148 | 5.0 | 105 | 85 | 15 | 6.6 | 0.10 | 34 | 22 | 70 |
| MEAN | 148 | 5.5 | 105 | 90 | 18 | 6.7 | 0.10 | 35 | 23 | 76 |
| <u>8-WEEKS</u> | | | | | | | | | | |
| 37 (F) | 150 | 5.2 | 109 | 58 | 22 | 6.7 | 0.30 | 26 | 22 | 99 |
| 43 (F) | 146 | 4.7 | 105 | 88 | 33 | 6.7 | 0.40 | 47 | 31 | 75 |
| 45 (F) | 148 | 4.7 | 105 | 62 | 15 | 6.8 | 0.20 | 17 | 22 | 69 |
| MEAN | 148 | 4.9 | 106 | 69 | 23 | 6.7 | 0.30 | 30 | 25 | 81 |
| <u>13-WEEKS</u> | | | | | | | | | | |
| 37 (F) | 147 | 4.7 | 111 | 89 | 16 | 6.7 | 0.50 | 30 | 33 | 71 |
| 43 (F) | 146 | 4.8 | 111 | 90 | 25 | 7.4 | 1.00 | 30 | 40 | 66 |
| 45 (F) | 146 | 4.5 | 107 | 102 | 14 | 6.6 | 0.35 | 30 | 29 | 70 |
| MEAN | 146 | 4.7 | 110 | 94 | 18 | 6.9 | 0.62 | 30 | 34 | 69 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 10 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|-----|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | | |
| 55 (M) | 150 | 5.0 | 103 | 102 | 14 | 6.8 | 0.10 | 36 | 67 | 63 | |
| 73 (M) | 151 | 4.8 | 106 | 94 | 13 | 6.4 | 0.20 | 48 | 37 | 66 | |
| 74 (M) | 153 | 4.9 | 107 | 94 | 17 | 7.0 | 0.15 | 48 | 37 | 51 | |
| MEAN | 151 | 4.9 | 105 | 97 | 15 | 6.7 | 0.15 | 44 | 47 | 60 | |
| | | | | | | | | | | | |
| | | | | | 2 WEEKS PRE-DRUG | | | | | | |
| 55 (M) | 145 | 4.5 | 96 | 97 | 12 | 6.4 | 0.30 | 39 | 46 | 69 | |
| 73 (M) | 146 | 4.8 | 106 | 98 | 10 | 6.4 | 0.35 | 21 | 17 | 75 | |
| 74 (M) | 146 | 4.9 | 104 | 100 | 15 | 6.8 | 0.30 | 27 | 17 | 60 | |
| MEAN | 146 | 4.7 | 102 | 98 | 12 | 6.5 | 0.32 | 29 | 27 | 68 | |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 10 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|----------------------|
| | | | | | | | | | | |
| <u>4-WEEKS</u> | | | | | | | | | | |
| 55 (M) | 148 | 4.6 | 113 | 94 | 20 | 6.3 | 0.10 | 26 | 37 | 43 |
| 73 (M) | 144 | 4.9 | 105 | 78 | 13 | 6.7 | 0.50 | 34 | 26 | 51 |
| 74 (M) | 145 | 4.8 | 109 | 82 | 18 | 7.2 | 0.10 | 26 | 56 | 38 |
| MEAN | 146 | 4.8 | 109 | 85 | 17 | 6.7 | 0.23 | 29 | 40 | 44 |
| <u>8-WEEKS</u> | | | | | | | | | | |
| 55 (M) | 155 | 4.8 | 105 | 68 | 9 | 7.4 | 0.40 | 26 | 40 | 46 |
| 73 (M) | 153 | 5.1 | 105 | 66 | 14 | 6.9 | 0.30 | 23 | 37 | 69 |
| 74 (M) | 154 | 4.7 | 104 | 64 | 13 | 7.4 | 0.20 | 62 | 40 | 40 |
| MEAN | 154 | 4.9 | 105 | 66 | 12 | 7.2 | 0.30 | 37 | 39 | 52 |
| <u>13-WEEKS</u> | | | | | | | | | | |
| 55 (M) | | 4.4 | 112 | 100 | 14 | 7.3 | 0.40 | 30 | 52 | 57 |
| 73 (M) | 148 | 4.5 | 113 | 105 | 11 | 6.7 | 0.45 | 30 | 33 | 57 |
| 74 (M) | 147 | 4.4 | 113 | 106 | 14 | 7.1 | 0.45 | 44 | 43 | 46 |
| MEAN | 147 | 4.4 | 113 | 104 | 13 | 7.0 | 0.43 | 35 | 43 | 53 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 10 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL | TOTAL BILI- RU, LN mg % | SGPT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|-----------------|----------------------------------|--------------|---------------|-----------------------|
| | | | | | | PROTEIN gm % | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | |
| 49 (F) | 150 | 5.1 | 103 | 110 | 18 | 6.2 | 0.10 | 36 | 33 | 46 |
| 50 (F) | 150 | 4.6 | 100 | 36 | 17 | 6.6 | 0.15 | 36 | 42 | 63 |
| 76 (F) | 150 | 5.2 | 103 | 110 | 20 | 6.4 | 0.15 | 39 | 33 | 51 |
| MEAN | 150 | 5.0 | 102 | 102 | 18 | 6.4 | 0.13 | 37 | 36 | 53 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | |
| 49 (F) | 147 | 5.4 | 107 | 103 | 15 | 6.3 | 0.20 | 30 | 33 | 40 |
| 50 (F) | 147 | 4.7 | 93 | 78 | 17 | 6.3 | 0.30 | 39 | 21 | 63 |
| 76 (F) | 145 | 5.0 | 102 | 109 | 16 | 6.4 | 0.30 | 22 | 13 | 69 |
| MEAN | 146 | 5.0 | 102 | 97 | 16 | 6.3 | 0.27 | 30 | 22 | 57 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX .. 10 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-----------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | |
| | | | | | <u>4-WEEKS</u> | | | | | |
| 49 (F) | 150 | 4.9 | 108 | 82 | 19 | 6.2 | 0.10 | 34 | 29 | 43 |
| 50 (F) | 147 | 4.4 | 117 | 100 | 15 | 6.2 | 0.10 | 30 | 26 | 51 |
| 76 (F) | 152 | 5.9 | 102 | 84 | 16 | 7.6 | 0.80 | 34 | 29 | 46 |
| MEAN | 150 | 5.1 | 109 | 89 | 17 | 6.7 | 0.33 | 33 | 28 | 47 |
| | | | | | <u>8-WEEKS</u> | | | | | |
| 49 (F) | 155 | 4.8 | 105 | 84 | 12 | 6.9 | 0.20 | 36 | 28 | 40 |
| 50 (F) | 155 | 4.4 | 104 | 70 | 15 | 6.5 | 0.20 | 22 | 26 | 40 |
| 76 (F) | 157 | 5.3 | 102 | 76 | 13 | 7.5 | 0.20 | 38 | 29 | 46 |
| MEAN | 156 | 4.8 | 104 | 77 | 13 | 7.0 | 0.20 | 32 | 28 | 42 |
| | | | | | <u>13-WEEKS</u> | | | | | |
| 49 (F) | 148 | 4.3 | 112 | 111 | 15 | 6.3 | 0.40 | 34 | 36 | 38 |
| 50 (F) | 146 | 4.3 | 113 | 101 | 19 | 6.7 | 0.45 | 37 | 33 | 49 |
| 76 (F) | 148 | 4.6 | 112 | 93 | 23 | 7.0 | 0.50 | 37 | 33 | 57 |
| MEAN | 147 | 4.4 | 112 | 102 | 19 | 6.7 | 0.45 | 36 | 34 | 48 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 64 (M) | 152 | 5.2 | 103 | 104 | 18 | 6.2 | 0.20 | 54 | 52 | 78 | |
| 68 (M) | 151 | 5.0 | 104 | 90 | 17 | 6.8 | 0.20 | 39 | 52 | 46 | |
| 75 (M) | 150 | 5.0 | 104 | 108 | 12 | 6.4 | 0.10 | 39 | 52 | 71 | |
| MEAN | 151 | 5.1 | 104 | 101 | 16 | 6.5 | 0.17 | 44 | 52 | 65 | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 64 (M) | 148 | 4.8 | 102 | 95 | 18 | 6.0 | 0.30 | 27 | 29 | 84 | |
| 68 (M) | 147 | 4.9 | 107 | 79 | 10 | 6.2 | 0.30 | 30 | 13 | 49 | |
| 75 (M) | 147 | 4.9 | 100 | 96 | 13 | 6.5 | 0.20 | 45 | 42 | 73 | |
| MEAN | 147 | 4.9 | 103 | 90 | 14 | 6.2 | 0.27 | 34 | 28 | 69 | |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 1 mg/kg

| DOG NO. AND SEX | $\frac{\text{Na}}{\text{mEq/L}}$ | $\frac{\text{K}}{\text{mEq/L}}$ | $\frac{\text{Cl}}{\text{mEq/L}}$ | $\frac{\text{GLU-COSE}}{\text{mg \%}}$ | $\frac{\text{BUN}}{\text{mg \%}}$ | $\frac{\text{TOTALPROTEIN}}{\text{gm \%}}$ | $\frac{\text{TOTALBILI-RUBIN}}{\text{mg \%}}$ | $\frac{\text{SGOT}}{\text{I.U.}}$ | $\frac{\text{SGPT}}{\text{units}}$ | $\frac{\text{ALK.PHOS.}}{\text{I.U.}}$ |
|--------------------|----------------------------------|---------------------------------|----------------------------------|--|-----------------------------------|--|---|-----------------------------------|------------------------------------|--|
| | | | | | | | | | | |
| | | | | | <u>4-WEEKS</u> | | | | | |
| 64 (M) | 148 | 4.8 | 108 | 112 | 18 | 5.8 | 0.10 | 49 | 37 | 71 |
| 68 (M) | 147 | 5.2 | 109 | 106 | 16 | 6.3 | 0.10 | 30 | 26 | 43 |
| 75 (M) | D E A D | | | | | | | | | |
| MEAN | 148 | 5.0 | 109 | 109 | 12 | 6.1 | 0.10 | 40 | 32 | 57 |
| | | | | | <u>8-WEEKS</u> | | | | | |
| 64 (M) | 149 | 4.4 | 106 | 74 | 17 | 6.4 | 0.20 | 38 | 39 | 63 |
| 68 (M) | 144 | 4.5 | 104 | 52 | 17 | 6.9 | 0.20 | 23 | 29 | 46 |
| 75 (M) | D E A D | | | | | | | | | |
| MEAN | 147 | 4.5 | 105 | 63 | 17 | 6.7 | 0.20 | 31 | 34 | 55 |
| | | | | | <u>13-WEEKS</u> | | | | | |
| 64 (M) | 147 | 4.6 | 112 | 96 | 24 | 5.2 | 0.60 | 70 | 66 | 82 |
| 68 (M) | 145 | 5.0 | 112 | 85 | 19 | 7.1 | 0.55 | 30 | 36 | 49 |
| 75 (M) | D E A D | | | | | | | | | |
| MEAN | 146 | 4.8 | 112 | 91 | 22 | 6.7 | 0.58 | 50 | 51 | 66 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 40 (F) | 150 | 4.2 | 108 | 114 | 19 | 6.3 | 0.10 | 36 | 25 | 84 | |
| 41 (F) | 146 | 4.6 | 105 | 108 | 22 | 6.6 | 0.50 | 39 | +2 | 51 | |
| 54 (F) | 150 | 4.5 | 105 | 98 | 20 | 6.9 | 0.20 | 48 | 27 | 78 | |
| MEAN | 149 | 4.4 | 106 | 107 | 20 | 6.6 | 0.27 | 41 | 31 | 71 | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 40 (F) | 146 | 4.7 | 105 | 78 | 16 | 6.6 | 0.30 | 30 | 29 | 77 | |
| 41 (F) | 144 | 4.9 | 105 | 110 | 21 | 6.5 | 0.25 | 36 | 42 | 49 | |
| 54 (F) | 148 | 4.8 | 99 | 86 | 19 | 6.8 | 0.30 | 39 | 17 | 75 | |
| MEAN | 146 | 4.8 | 103 | 91 | 19 | 6.6 | 0.28 | 35 | 29 | 67 | |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-----------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | |
| | | | | | <u>4-WEEKS</u> | | | | | |
| 40 (F) | 147 | 4.8 | 106 | 86 | 20 | 6.3 | 0.10 | 26 | 14 | 77 |
| 41 (F) | 146 | 4.6 | 107 | 105 | 11 | 6.0 | 0.10 | 45 | 33 | 49 |
| 54 (F) | 147 | 4.6 | 106 | 74 | 18 | 6.5 | 0.10 | 30 | 18 | 75 |
| MEAN | 147 | 4.7 | 106 | 88 | 16 | 6.3 | 0.10 | 34 | 22 | 64 |
| | | | | | <u>8-WEEKS</u> | | | | | |
| 40 (F) | 150 | 5.2 | 104 | 62 | 22 | 6.6 | 0.20 | 43 | 18 | 97 |
| 41 (F) | 149 | 4.7 | 108 | 78 | 20 | 6.9 | 0.20 | 59 | 33 | 40 |
| 54 (F) | 150 | 4.5 | 106 | 54 | 18 | 7.1 | 0.20 | 43 | 20 | 75 |
| MEAN | 150 | 4.8 | 106 | 65 | 20 | 6.9 | 0.20 | 48 | 24 | 71 |
| | | | | | <u>13-WEEKS</u> | | | | | |
| 40 (F) | 146 | 4.8 | 107 | 101 | 21 | 7.1 | 0.40 | 34 | 29 | 80 |
| 41 (F) | 144 | 4.2 | 109 | 118 | 17 | 7.3 | 0.50 | 40 | 36 | 49 |
| 54 (F) | 144 | 4.3 | 107 | 100 | 23 | 6.9 | 0.40 | 24 | 29 | 94 |
| MEAN | 145 | 4.4 | 108 | 106 | 20 | 7.1 | 0.43 | 33 | 31 | 74 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | |
| 59 (M) | 150 | 4.7 | 106 | 112 | 16 | 6.3 | 0.15 | 39 | 33 | 70 |
| 61 (M) | 152 | 4.4 | 106 | 110 | 16 | 6.6 | 0.10 | 39 | 21 | 57 |
| 67 (M) | 151 | 4.7 | 105 | 96 | 14 | 6.4 | 0.10 | 51 | 52 | 49 |
| MEAN | 151 | 4.6 | 106 | 106 | 15 | 6.4 | 0.12 | 43 | 35 | 59 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | |
| 59 (M) | 147 | 5.4 | 98 | 97 | 14 | 6.4 | 0.30 | 42 | 29 | 75 |
| 61 (M) | 147 | 4.6 | 99 | 102 | 14 | 6.1 | 0.30 | 33 | 17 | 66 |
| 67 (M) | 147 | 4.5 | 100 | 100 | 12 | 6.4 | 0.30 | 30 | 25 | 72 |
| MEAN | 147 | 4.8 | 99 | 100 | 13 | 6.3 | 0.30 | 35 | 24 | 71 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN | TOTAL BILI- RUBIN | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|------------------|-------------------------|--------------|---------------|-----------------------|
| | | | | | | gm % | mg % | | | |
| <u>4-WEEKS</u> | | | | | | | | | | |
| 59 (M) | 150 | 4.6 | 112 | 102 | 22 | 6.1 | 0.10 | 38 | 29 | 75 |
| 61 (M) | 154 | 5.1 | 102 | 88 | 20 | 5.9 | 0.10 | 34 | 14 | 54 |
| 67 (M) | 157 | 5.2 | 105 | 103 | 17 | 7.0 | 0.10 | 38 | 29 | 57 |
| MEAN | 154 | 5.0 | 106 | 98 | 20 | 6.3 | 0.10 | 37 | 24 | 62 |
| <u>8-WEEKS</u> | | | | | | | | | | |
| 59 (M) | 150 | 4.5 | 108 | 80 | 15 | 6.5 | 0.20 | 40 | 26 | 82 |
| 61 (M) | 151 | 4.3 | 106 | 60 | 16 | 6.7 | 0.20 | 36 | 20 | 57 |
| 67 (M) | 150 | 4.7 | 106 | 66 | 22 | 7.1 | 0.20 | 51 | 29 | 43 |
| MEAN | 150 | 4.5 | 107 | 69 | 18 | 6.8 | 0.20 | 42 | 25 | 61 |
| <u>13-WEEKS</u> | | | | | | | | | | |
| 59 (M) | 147 | 4.3 | 110 | 106 | 17 | 6.3 | 0.40 | 34 | 43 | 72 |
| 61 (M) | 147 | 4.1 | 112 | 68 | 17 | 6.4 | 0.35 | 21 | 33 | 51 |
| 67 (M) | 147 | 4.5 | 109 | 97 | 14 | 7.0 | 0.30 | 34 | 43 | 46 |
| MEAN | 147 | 4.3 | 110 | 90 | 16 | 6.6 | 0.35 | 30 | 40 | 56 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 35 (F) | 147 | 4.4 | 100 | 98 | 15 | 6.7 | 0.20 | 39 | 33 | 66 | |
| 36 (F) | 145 | 4.5 | 106 | 78 | 25 | 6.5 | 0.30 | 33 | 33 | 46 | |
| 53 (F) | 152 | 4.8 | 106 | 104 | 20 | 6.7 | 0.15 | 36 | 27 | 70 | |
| MEAN | 148 | 4.6 | 104 | 93 | 20 | 6.6 | 0.22 | 36 | 31 | 61 | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 35 (F) | 147 | 4.7 | 104 | 92 | 15 | 6.8 | 0.25 | 24 | 29 | 54 | |
| 36 (F) | 145 | 5.0 | 104 | 96 | 22 | 6.8 | 0.20 | 39 | 33 | 38 | |
| 53 (F) | 149 | 4.7 | 100 | 97 | 18 | 6.9 | 0.30 | 45 | 17 | 70 | |
| MEAN | 147 | 4.8 | 103 | 95 | 18 | 6.8 | 0.25 | 36 | 26 | 54 | |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT unif's | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|----------------|-----------------------|
| | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | |
| 35 (F) | 149 | 4.7 | 107 | 93 | 13 | 6.4 | 0.10 | 30 | 22 | 46 |
| 36 (F) | 149 | 5.2 | 106 | 100 | 15 | 6.4 | 0.10 | 38 | 26 | 36 |
| 53 (F) | 150 | 5.0 | 104 | 94 | 15 | 6.8 | 0.10 | 38 | 22 | 54 |
| MEAN | 149 | 4.9 | 104 | 96 | 14 | 6.5 | 0.10 | 35 | 23 | 45 |
| 8-WEEKS | | | | | | | | | | |
| 35 (F) | 150 | 4.5 | 105 | 68 | 13 | 7.2 | 0.40 | 45 | 33 | 63 |
| 36 (F) | 149 | 4.5 | 106 | 82 | 20 | 5.4 | 0.20 | 47 | 29 | 46 |
| 53 (F) | 149 | 4.2 | 108 | 76 | 16 | 6.4 | 0.20 | 51 | 20 | 38 |
| MEAN | 149 | 4.4 | 106 | 75 | 16 | 6.3 | 0.27 | 48 | 27 | 49 |
| 13-WEEKS | | | | | | | | | | |
| 35 (F) | 147 | 4.0 | 108 | 83 | 19 | 7.3 | 0.70 | 34 | 40 | 69 |
| 36 (F) | 144 | 4.6 | 108 | 91 | 20 | 7.2 | 0.35 | 44 | 33 | 51 |
| 53 (F) | 148 | 4.1 | 109 | 90 | 20 | 6.8 | 0.40 | 34 | 33 | 57 |
| MEAN | 146 | 4.2 | 108 | 88 | 20 | 7.1 | 0.48 | 37 | 35 | 59 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | |
| 69 (M) | 151 | 4.6 | 106 | 70 | 12 | 6.3 | 0.15 | 39 | 37 | 36 |
| 70 (M) | 151 | 5.2 | 104 | 94 | 11 | 6.8 | 0.20 | 42 | 52 | 57 |
| 71 (M) | 152 | 4.7 | 105 | 98 | 18 | 6.7 | 0.20 | 54 | 75 | 40 |
| MEAN | 151 | 4.8 | 105 | 87 | 14 | 6.6 | 0.18 | 45 | 55 | 44 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | |
| 69 (M) | 147 | 4.9 | 107 | 79 | 10 | 6.2 | 0.30 | 30 | 13 | 49 |
| 70 (M) | 146 | 4.7 | 100 | 96 | 12 | 6.5 | 0.30 | 30 | 25 | 70 |
| 71 (M) | 148 | 4.9 | 105 | 98 | 14 | 6.7 | 0.35 | 27 | 33 | 43 |
| MEAN | 147 | 4.8 | 104 | 91 | 12 | 6.5 | 0.32 | 29 | 24 | 54 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | |
| 69 (M) | 145 | 4.8 | 107 | 86 | 16 | 6.9 | 0.10 | 26 | 14 | 43 |
| 70 (M) | 146 | 4.6 | 108 | 86 | 15 | 6.8 | 0.15 | 30 | 26 | 51 |
| 71 (M) | 146 | 4.8 | 111 | 90 | 17 | 6.8 | 0.10 | 34 | 60 | 30 |
| MEAN | 146 | 4.7 | 109 | 87 | 16 | 6.8 | 0.12 | 30 | 33 | 41 |
| 8-WEEKS | | | | | | | | | | |
| 69 (M) | 155 | 4.6 | 108 | 60 | 14 | 7.0 | 0.30 | 30 | 20 | 33 |
| 70 (M) | 156 | 5.0 | 105 | 63 | 14 | 7.1 | 0.20 | 20 | 26 | 60 |
| 71 (M) | 156 | 4.8 | 106 | 68 | 15 | 7.2 | 0.20 | 26 | 33 | 24 |
| MEAN | 156 | 4.8 | 106 | 64 | 14 | 7.1 | 0.23 | 25 | 26 | 39 |
| 13-WEEKS | | | | | | | | | | |
| 69 (M) | 142 | 4.2 | 112 | 76 | 13 | 6.7 | 0.40 | 37 | 25 | 43 |
| 70 (M) | 138 | 4.2 | 103 | 56 | 13 | 6.6 | 0.40 | 37 | 25 | 54 |
| 71 (M) | 146 | 4.9 | 113 | 81 | 20 | 7.2 | 0.40 | 52 | 43 | 38 |
| MEAN | 142 | 4.4 | 109 | 71 | 15 | 6.8 | 0.40 | 42 | 31 | 45 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 mg/kg

| DOG NO. AND SEX | $\frac{\text{Na}}{\text{mEq/L}}$ | $\frac{\text{K}}{\text{mEq/L}}$ | $\frac{\text{Cl}}{\text{mEq/L}}$ | $\frac{\text{GLU-COSE}}{\text{mg \%}}$ | 3 WEEKS PRE-DRUG | | | $\frac{\text{TOTALBILI-RUBIN}}{\text{mg \%}}$ | $\frac{\text{SGOT}}{\text{I.U.}}$ | $\frac{\text{SGPT}}{\text{units}}$ | $\frac{\text{ALK.PHOS.}}{\text{I.U.}}$ |
|--------------------|----------------------------------|---------------------------------|----------------------------------|--|-----------------------------------|--|------|---|-----------------------------------|------------------------------------|--|
| | | | | | $\frac{\text{BUN}}{\text{mg \%}}$ | $\frac{\text{TOTALPROTEIN}}{\text{gm \%}}$ | | | | | |
| 46 (F) | 152 | 4.8 | 107 | 119 | 17 | 6.6 | 0.15 | 48 | 42 | 51 | |
| 47 (F) | 149 | 4.2 | 107 | 104 | 19 | 6.1 | 0.10 | 42 | 33 | 82 | |
| 48 (F) | 150 | 4.3 | 104 | 118 | 15 | 6.3 | 0.20 | 36 | 33 | 63 | |
| MEAN | 150 | 4.4 | 106 | 111 | 17 | 6.3 | 0.15 | 42 | 36 | 65 | |
| 2 WEEKS POST-DRUG | | | | | | | | | | | |
| 46 (F) | 149 | 5.9 | 110 | 100 | 13 | 6.5 | 0.20 | 30 | 37 | 57 | |
| 47 (F) | 147 | 4.8 | 99 | 100 | 13 | 6.3 | 0.20 | 27 | 37 | 75 | |
| 48 (F) | 148 | 5.1 | 109 | 103 | 13 | 6.5 | 0.20 | 42 | 29 | 51 | |
| MEAN | 148 | 5.3 | 106 | 101 | 13 | 6.4 | 0.20 | 33 | 34 | 61 | |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN | TOTAL BILI- RUBIN | SGOT I.U. | SGPT units | ALK. PHOS. I.U. | |
|--------------------|-------------|------------|-------------|----------------------|-------------|------------------|-------------------------|--------------|---------------|-----------------------|--|
| | | | | | | gm % | mg % | | | | |
| <u>4-WEEKS</u> | | | | | | | | | | | |
| 46 (F) | 145 | 5.0 | 111 | 86 | 25 | 6.4 | 0.30 | 38 | 26 | 57 | |
| 47 (F) | 145 | 4.6 | 108 | 82 | 22 | 6.1 | 0.10 | 26 | 26 | 85 | |
| 48 (F) | 150 | 4.4 | 111 | 100 | 21 | 6.8 | 0.20 | 42 | 33 | 57 | |
| MEAN | 147 | 4.7 | 110 | 89 | 23 | 6.4 | 0.20 | 35 | 28 | 66 | |
| <u>8-WEEKS</u> | | | | | | | | | | | |
| 46 (F) | 156 | 4.7 | 111 | 78 | 21 | 6.9 | 0.20 | 38 | 22 | 51 | |
| 47 (F) | 156 | 4.8 | 112 | 70 | 26 | 6.5 | 0.20 | 26 | 21 | 94 | |
| 48 (F) | 155 | 5.2 | 104 | 72 | 19 | 7.3 | 0.40 | 25 | 26 | 46 | |
| MEAN | 156 | 4.9 | 109 | 73 | 22 | 6.9 | 0.27 | 30 | 23 | 64 | |
| <u>13-WEEKS</u> | | | | | | | | | | | |
| 46 (F) | 146 | 4.9 | 113 | 71 | 18 | 6.9 | 0.40 | 44 | 36 | 49 | |
| 47 (F) | 146 | 4.5 | 113 | 71 | 18 | 6.4 | 0.35 | 40 | 36 | 72 | |
| 48 (F) | 148 | 4.9 | 108 | 82 | 21 | 6.5 | 0.40 | 40 | 36 | 51 | |
| MEAN | 147 | 4.7 | 111 | 75 | 19 | 6.6 | 0.38 | 41 | 36 | 57 | |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 60 (M) | 149 | 5.0 | 101 | 110 | 16 | 6.7 | 0.15 | 42 | 33 | | 82 |
| 62 (M) | 151 | 5.0 | 106 | 96 | 13 | 6.3 | 0.10 | 36 | 46 | | 57 |
| 63 (M) | 150 | 4.8 | 100 | 100 | 11 | 6.6 | 0.10 | 59 | 29 | | 63 |
| MEAN | 150 | 4.9 | 102 | 102 | 13 | 6.5 | 0.12 | 46 | 36 | | 67 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 60 (M) | 146 | 4.8 | 99 | 108 | 16 | 6.7 | 0.30 | 42 | 29 | | 80 |
| 62 (M) | 146 | 5.1 | 102 | 94 | 13 | 6.3 | 0.25 | 33 | 17 | | 70 |
| 63 (M) | 147 | 4.8 | 98 | 78 | 13 | 6.5 | 0.30 | 57 | 25 | | 75 |
| MEAN | 146 | 4.9 | 100 | 93 | 14 | 6.5 | 0.28 | 44 | 24 | | 75 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| <u>4-WEEKS</u> | | | | | | | | | | |
| 60 (M) | 149 | 4.7 | 108 | 84 | 18 | 6.3 | 0.10 | 42 | 22 | 66 |
| 62 (M) | 145 | 4.6 | 109 | 94 | 14 | 5.9 | 0.05 | 26 | 22 | 49 |
| 63 (M) | 146 | 4.7 | 106 | 84 | 17 | 6.5 | 0.15 | 34 | 29 | 49 |
| MEAN | 147 | 4.7 | 108 | 87 | 16 | 6.2 | 0.10 | 34 | 24 | 55 |
| <u>8-WEEKS</u> | | | | | | | | | | |
| 60 (M) | 153 | 5.0 | 106 | 80 | 18 | 7.3 | 0.20 | 23 | 24 | 51 |
| 62 (M) | 154 | 4.9 | 106 | 70 | 15 | 6.8 | 0.20 | 23 | 26 | 38 |
| 63 (M) | 156 | 4.9 | 105 | 60 | 15 | 6.8 | 0.30 | 34 | 26 | 43 |
| MEAN | 154 | 4.9 | 106 | 70 | 16 | 7.0 | 0.23 | 27 | 25 | 44 |
| <u>13-WEEKS</u> | | | | | | | | | | |
| 60 (M) | 145 | 4.7 | 106 | 68 | 16 | 7.1 | 0.40 | 44 | 33 | 66 |
| 62 (M) | 138 | 4.7 | 109 | 82 | 14 | 6.9 | 0.50 | 37 | 33 | 49 |
| 63 (M) | 146 | 4.7 | 108 | 76 | 17 | 6.6 | 0.50 | 40 | 36 | 46 |
| MEAN | 143 | 4.7 | 108 | 75 | 16 | 6.9 | 0.47 | 40 | 34 | 54 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 42 (F) | 149 | 4.4 | 104 | 108 | 18 | 6.9 | 0.10 | 45 | 33 | 43 | |
| 38 (F) | 149 | 4.7 | 108 | 86 | 17 | 6.5 | 0.10 | 33 | 33 | 51 | |
| 52 (F) | 150 | 4.7 | 104 | 94 | 21 | 6.2 | 0.15 | 30 | 33 | 33 | |
| MEAN | 149 | 4.6 | 105 | 96 | 19 | 6.5 | 0.12 | 36 | 33 | 42 | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 42 (F) | 148 | 5.2 | 103 | 100 | 15 | 6.9 | 0.20 | 36 | 46 | 46 | |
| 38 (F) | 150 | 5.4 | 100 | 78 | 13 | 6.7 | 0.25 | 36 | 37 | 71 | |
| 52 (F) | 147 | 4.6 | 104 | 103 | 16 | 5.8 | 0.30 | 27 | 21 | 43 | |
| MEAN | 148 | 5.1 | 102 | 94 | 15 | 6.5 | 0.25 | 33 | 35 | 53 | |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | |
| 42 (F) | 149 | 4.4 | 117 | 96 | 23 | 6.9 | 0.50 | 49 | 40 | 57 |
| 38 (F) | 148 | 4.3 | 115 | 102 | 20 | 6.6 | 0.45 | 38 | 37 | 70 |
| 52 (F) | 147 | 5.0 | 109 | 82 | 19 | 5.9 | 0.10 | 23 | 18 | 33 |
| MEAN | 148 | 4.6 | 114 | 93 | 21 | 6.5 | 0.35 | 37 | 32 | 53 |
| 8-WEEKS | | | | | | | | | | |
| 42 (F) | 155 | 5.2 | 109 | 60 | 21 | 7.4 | 0.30 | 25 | 28 | 43 |
| 38 (F) | 155 | 4.6 | 103 | 66 | 18 | 6.9 | 0.50 | 38 | 33 | 49 |
| 52 (F) | 155 | 4.8 | 107 | 70 | 17 | 6.5 | 0.40 | 20 | 24 | 36 |
| MEAN | 155 | 4.9 | 106 | 65 | 19 | 6.9 | 0.40 | 28 | 28 | 43 |
| 13-WEEKS | | | | | | | | | | |
| 42 (F) | 146 | 5.1 | 109 | 77 | 17 | 7.4 | 0.45 | 55 | 40 | 57 |
| 38 (F) | 146 | 4.0 | 112 | 102 | 20 | 6.5 | 0.45 | 44 | 43 | 72 |
| 52 (F) | 149 | 4.3 | 109 | 70 | 16 | 6.5 | 0.40 | 34 | 33 | 40 |
| MEAN | 147 | 4.5 | 110 | 83 | 18 | 6.8 | 0.43 | 44 | 39 | 56 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | TOTAL | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|-----------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | PROTEIN gm % | | | | |
| 3 WEEKS PRE-DRUG | | | | | | | | | | |
| 56 (M) | 151 | 4.6 | 104 | 94 | 14 | 6.3 | 0.20 | 36 | 27 | 40 |
| 57 (M) | 151 | 4.7 | 106 | 94 | 16 | 6.5 | 0.20 | 42 | 37 | 57 |
| 58 (M) | 150 | 4.7 | 106 | 104 | 15 | 5.9 | 0.10 | 39 | 42 | 43 |
| MEAN | 151 | 4.7 | 105 | 97 | 15 | 6.2 | 0.17 | 39 | 35 | 47 |
| 2 WEEKS PRE-DRUG | | | | | | | | | | |
| 56 (M) | 148 | 4.8 | 100 | 99 | 13 | 6.2 | 0.25 | 33 | 17 | 46 |
| 57 (M) | 148 | 4.9 | 108 | 94 | 15 | 6.4 | 0.30 | 22 | 21 | 66 |
| 58 (M) | 148 | 5.0 | 100 | 83 | 15 | 5.8 | 0.20 | 36 | 25 | 49 |
| MEAN | 148 | 4.9 | 103 | 92 | 14 | 6.1 | 0.25 | 30 | 21 | 54 |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | BUN mg % | TOTAL PROTEIN gm % | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|--------------------------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | | | | | | |
| 4-WEEKS | | | | | | | | | | |
| 56 (M) | 148 | 4.9 | 109 | 74 | 17 | 6.4 | 0.35 | 26 | 22 | 38 |
| 57 (M) | 150 | 4.3 | 117 | 90 | 25 | 6.1 | 0.30 | 34 | 33 | 57 |
| 58 (M) | 150 | 4.6 | 111 | 90 | 21 | 5.7 | 0.15 | 42 | 33 | 43 |
| MEAN | 149 | 4.6 | 112 | 85 | 21 | 6.1 | 0.27 | 34 | 29 | 46 |
| 8-WEEKS | | | | | | | | | | |
| 56 (M) | 157 | 4.9 | 103 | 62 | 14 | 6.8 | 0.30 | 20 | 26 | 38 |
| 57 (M) | 156 | 4.9 | 108 | 66 | 19 | 6.9 | 0.30 | 19 | 29 | 49 |
| 58 (M) | 156 | 5.1 | 104 | 68 | 21 | 6.7 | 0.60 | 30 | 33 | 46 |
| MEAN | 156 | 5.0 | 105 | 65 | 18 | 6.8 | 0.40 | 23 | 29 | 44 |
| 13-WEEKS | | | | | | | | | | |
| 56 (M) | 148 | 4.0 | 114 | 97 | 14 | 6.5 | 0.30 | 19 | 25 | 46 |
| 57 (M) | 144 | 4.0 | 112 | 100 | 14 | 6.6 | 0.40 | 30 | 36 | 63 |
| 58 (M) | 145 | 4.4 | 118 | 114 | 24 | 6.4 | 0.50 | 34 | 47 | 46 |
| MEAN | 146 | 4.1 | 115 | 104 | 17 | 6.5 | 0.40 | 28 | 36 | 52 |

LITTON BIONETICS, INC.

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.02 mg/kg

| DOG NO. AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 3 WEEKS PRE-DRUG | | | TOTAL BILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|------------------|--------------------------|------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | TOTAL PROTEIN gm % | | | | | |
| 39 (F) | 150 | 4.7 | 109 | 100 | 23 | 6.7 | 0.50 | 36 | 42 | 78 | |
| 44 (F) | 149 | 4.5 | 100 | 104 | 17 | 6.3 | 0.15 | 54 | 25 | 71 | |
| 51 (F) | 150 | 4.9 | 101 | 94 | 15 | 6.4 | 0.10 | 42 | 37 | 73 | |
| MEAN | 150 | 4.7 | 103 | 99 | 18 | 6.5 | 0.25 | 44 | 35 | 74 | |
| 2 WEEKS PRE-DRUG | | | | | | | | | | | |
| 39 (F) | 151 | 5.4 | 109 | 100 | 14 | 6.9 | 0.30 | 48 | 42 | 46 | |
| 44 (F) | 147 | 5.5 | 104 | 102 | 11 | 6.3 | 0.20 | 27 | 29 | 70 | |
| 51 (F) | 147 | 4.5 | 99 | 93 | 13 | 6.5 | 0.25 | 51 | 21 | 77 | |
| MEAN | 104 | 5.1 | 104 | 98 | 13 | 6.6 | 0.25 | 42 | 31 | 64 | |

TABLE 5 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.01 mg/kg

| DOG NO, AND SEX | Na mEq/L | K mEq/L | Cl mEq/L | GLU- COSE mg % | 4-WEEKS | | TOTAL RILI- RUBIN mg % | SGOT I.U. | SGPT units | ALK. PHOS. I.U. |
|--------------------|-------------|------------|-------------|----------------------|-------------|----------|---------------------------------|--------------|---------------|-----------------------|
| | | | | | BUN mg % | IFN % | | | | |
| 39 (F) | 148 | 4.6 | 106 | 90 | 15 | 6.2 | 0.10 | 42 | 33 | 38 |
| 44 (F) | 148 | 4.8 | 103 | 76 | 15 | 7.0 | 0.50 | 49 | 33 | 63 |
| 51 (F) | 145 | 4.6 | 105 | 76 | 18 | 6.8 | 0.60 | 34 | 76 | 99 |
| MEAN | 147 | 4.7 | 105 | 81 | 16 | 6.7 | 0.40 | 42 | 47 | 67 |
| 8-WEEKS | | | | | | | | | | |
| 39 (F) | 136 | 4.7 | 108 | 74 | 16 | 6.8 | 0.30 | 40 | 40 | 33 |
| 44 (F) | 158 | 4.6 | 106 | 58 | 19 | 7.3 | 0.40 | 40 | 20 | 72 |
| 51 (F) | 155 | 5.1 | 109 | 64 | 21 | 7.2 | 0.90 | 25 | 35 | 77 |
| MEAN | 156 | 4.8 | 108 | 65 | 19 | 7.1 | 0.53 | 35 | 32 | 61 |
| 13-WEEKS | | | | | | | | | | |
| 39 (F) | 145 | 4.4 | 111 | 104 | 21 | 6.5 | 0.70 | 24 | 47 | 40 |
| 44 (F) | 142 | 4.1 | 110 | 110 | 23 | 6.6 | 0.45 | 27 | 33 | 75 |
| 51 (F) | 145 | 3.8 | 113 | 102 | 20 | 6.1 | 0.50 | 37 | 36 | 73 |
| MEAN | 144 | 4.1 | 111 | 105 | 21 | 6.4 | 0.55 | 29 | 39 | 63 |

LITTON BIONETICS, INC.

TABLE 6

SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)
 (% Retention at 30 minutes)

| <u>DOG NO. AND SEX</u> | <u>PRE-DRUG</u> | | <u>WEEKS OF DRUG ADMINISTRATION</u> | | |
|----------------------------|-----------------|--------------|---|----------|-----------|
| | <u>3 Wks</u> | <u>2 Wks</u> | <u>4</u> | <u>8</u> | <u>13</u> |
| <u>CONTROL</u> | | | | | |
| 65 (M) | 2.0 | 0.5 | 2.0 | 2.5 | 1.5 |
| 66 (M) | 4.2 | 1.0 | 2.0 | 5.0 | 3.5 |
| 72 (M) | 3.0 | 2.5 | 2.5 | 3.5 | 4.5 |
| MEAN | 3.1 | 1.3 | 2.2 | 3.7 | 3.2 |
| 37 (F) | 4.0 | 5.0 | 2.0 | 2.5 | 4.0 |
| 43 (F) | 4.0 | 4.0 | 3.5 | 4.0 | 3.5 |
| 45 (F) | 2.5 | 3.5 | 2.5 | 4.0 | 2.5 |
| MEAN | 3.5 | 4.2 | 2.7 | 3.5 | 3.3 |

LITTON BIONETICS, INC.

TABLE 6 (continued)

SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)
(% Retention at 30 minutes)

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|------------------------|----------|-------|---------------------------------|-----|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>RDX - 10 mg/kg</u> | | | | | |
| 55 (M) | 2.5 | 2.5 | 2.5 | 2.3 | 3.5 |
| 73 (M) | 5.0 | 3.0 | 2.0 | 2.0 | 2.0 |
| 74 (M) | 1.8 | 0.5 | 2.5 | 1.0 | 2.0 |
| MEAN | 3.1 | 2.0 | 2.3 | 1.8 | 2.5 |
| 49 (F) | 2.5 | 3.0 | 1.5 | 2.0 | 4.0 |
| 50 (F) | 6.0 | 4.2 | 4.6 | 4.0 | 4.5 |
| 76 (F) | 3.0 | 2.5 | 4.0 | 2.5 | 3.5 |
| MEAN | 3.8 | 3.2 | 3.4 | 2.8 | 4.0 |
| <u>RDX - 1 mg/kg</u> | | | | | |
| 64 (M) | 2.5 | 3.0 | 1.8 | 4.0 | 2.5 |
| 68 (M) | 4.2 | 1.2 | 2.0 | 2.0 | 2.5 |
| 75 (M) | 3.0 | 3.5 | DEAD | - | - |
| MEAN | 3.2 | 2.6 | 1.9 | 3.0 | 2.5 |
| 40 (F) | 2.5 | 2.0 | 1.2 | 2.5 | 2.5 |
| 41 (F) | 4.0 | 2.5 | 1.8 | 1.0 | 2.0 |
| 54 (F) | 1.8 | 1.8 | 2.0 | 1.0 | 4.0 |
| MEAN | 2.8 | 2.1 | 1.7 | 1.5 | 2.8 |
| <u>RDX - 0.1 mg/kg</u> | | | | | |
| 59 (M) | 3.5 | 0.5 | 1.2 | 2.5 | 4.0 |
| 61 (M) | 4.0 | 1.2 | 3.0 | 3.5 | 4.0 |
| 67 (M) | 4.0 | 0.5 | 1.2 | 1.5 | 2.0 |
| MEAN | 3.8 | 0.7 | 1.8 | 2.5 | 3.3 |
| 35 (F) | 2.5 | 2.0 | 1.8 | 4.5 | 4.0 |
| 36 (F) | 3.0 | 3.0 | 2.0 | 3.5 | 3.5 |
| 53 (F) | 2.5 | 1.8 | 2.0 | 2.0 | 2.5 |
| MEAN | 2.7 | 2.3 | 1.9 | 3.3 | 3.3 |

LITTON BIONETICS, INC.

TABLE 6 (continued)

SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)
(% Retention at 30 minutes)

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|-------------------------|----------|-------|---------------------------------|-----|------|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>TNT - 1 mg/kg</u> | | | | | |
| 69 (M) | 3.0 | 2.0 | 2.0 | 3.5 | 2.0 |
| 70 (M) | 2.5 | 3.5 | 4.2 | 2.5 | 2.5 |
| 71 (M) | 2.5 | 2.0 | 1.8 | 2.5 | 1.5 |
| MEAN | 2.7 | 2.5 | 2.7 | 2.8 | 2.0 |
| 46 (F) | 3.0 | 2.0 | 3.0 | 2.5 | 2.5 |
| 47 (F) | 2.5 | 2.5 | 2.5 | 1.5 | 2.0 |
| 48 (F) | 3.5 | 3.0 | 2.5 | 4.5 | 6.5* |
| MEAN | 3.0 | 2.5 | 2.7 | 2.8 | 3.7 |
| <u>TNT - 0.1 mg/kg</u> | | | | | |
| 60 (M) | 5.0 | 3.0 | 2.5 | 2.5 | 2.5 |
| 62 (M) | 4.2 | 1.0 | 2.0 | 3.5 | 3.5 |
| 63 (M) | 3.5 | 1.0 | 1.0 | 2.0 | 2.5 |
| MEAN | 4.2 | 1.7 | 1.8 | 2.7 | 2.8 |
| 42 (F) | 2.5 | 3.5 | 2.0 | 3.5 | 2.5 |
| 38 (F) | 2.0 | 3.5 | 3.0 | 4.0 | 4.0 |
| 52 (F) | 2.5 | 0.5 | 2.5 | 2.5 | 2.5 |
| MEAN | 2.3 | 2.5 | 2.5 | 3.3 | 3.0 |
| <u>TNT - 0.02 mg/kg</u> | | | | | |
| 56 (M) | 4.2 | 2.5 | 3.0 | 3.5 | 2.5 |
| 57 (M) | 3.0 | 1.0 | 2.5 | 2.5 | 2.5 |
| 58 (M) | 1.8 | 1.8 | 2.0 | 2.0 | 3.5 |
| MEAN | 3.0 | 1.8 | 2.5 | 2.7 | 2.8 |
| 39 (F) | 4.0 | 3.5 | 1.2 | 3.5 | 2.0 |
| 44 (F) | 3.0 | 1.2 | 1.0 | 4.0 | 2.0 |
| 51 (M) | 1.0 | 4.2 | 2.5 | 1.5 | 2.5 |
| MEAN | 2.7 | 3.0 | 1.6 | 3.0 | 2.2 |

*Confirmed by repeat sample.

TABLE 7
METHEMOGLOBIN
(% Saturation)

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|--------------------|----------|-------|---------------------------------|-----|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| | CONTROL | | | | |
| 65 (M) | 0 | 0 | 4.0 | 1.9 | 0 |
| 66 (M) | 6.3 | 9.7 | 6.4 | 5.0 | 0 |
| 72 (M) | 7.0 | 0 | 6.0 | 6.4 | 4.7 |
| MEAN | 4.4 | 3.2 | 5.5 | 4.4 | 1.6 |
| 37 (F) | 0 | 0 | 7.4 | 8.7 | 8.6 |
| 43 (F) | 0 | 0.9 | 8.0 | 2.7 | 0 |
| 45 (F) | 0 | 0 | 5.7 | 2.1 | 0 |
| MEAN | 0 | 0.3 | 7.0 | 4.5 | 2.9 |

LITTON BIONETICS, INC.

TABLE 7 (continued)

METHEMOGLOBIN
(% Saturation)

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|------------------------|----------|-------|---------------------------------|-----|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>RDX - 10 mg/kg</u> | | | | | |
| 55 (M) | 0 | 0 | 1.3 | 0 | 3.1 |
| 73 (M) | 0 | 0 | 5.3 | 2.5 | 0 |
| 74 (M) | 0 | 0 | 7.8 | 2.4 | 2.3 |
| MEAN | 0 | 0 | 4.8 | 1.6 | 1.8 |
| 49 (F) | 0 | 0 | 0 | 0 | 0 |
| 50 (F) | 0 | 0 | 1.2 | 0 | 0 |
| 76 (F) | 0 | 0 | 5.9 | 0 | 0 |
| MEAN | 0 | 0 | 2.4 | 0 | 0 |
| <u>RDX - 1 mg/kg</u> | | | | | |
| 64 (M) | 2.2 | 0 | 4.9 | 1.1 | 0 |
| 68 (M) | 0 | 2.0 | 3.4 | 4.8 | 6.0 |
| 75 (M) | 0 | 0.2 | DEAD | - | - |
| MEAN | 0.7 | 0.7 | 4.2 | 3.0 | 3.0 |
| 40 (F) | 0.8 | 0 | 7.8 | 3.8 | 3.3 |
| 41 (F) | 0.7 | 1.1 | 4.9 | 3.7 | 0 |
| 54 (F) | 2.0 | 3.0 | 6.0 | 3.2 | 0 |
| MEAN | 1.2 | 1.4 | 6.2 | 3.6 | 1.1 |
| <u>RDX - 0.1 mg/kg</u> | | | | | |
| 59 (M) | 0 | 0 | 5.2 | 0 | 0 |
| 61 (M) | 0 | 1.6 | 6.9 | 1.2 | 0 |
| 67 (M) | 2.6 | 2.0 | 9.5 | 2.0 | 0 |
| MEAN | 0.9 | 1.2 | 7.2 | 1.1 | 0 |
| 35 (F) | 0 | 0 | 4.1 | 0 | 0 |
| 36 (F) | 1.5 | 2.3 | 3.9 | 0.9 | 1.3 |
| 53 (F) | 0 | 0 | 2.9 | 0 | 0 |
| MEAN | 0.5 | 0.8 | 3.6 | 0.3 | 0.4 |

LITTON BIONETICS, INC.

TABLE 7 (continued)

METHEMOGLOBIN
(% Saturation)

| DOG NO. AND SEX | PRE-DRUG | | WEEKS OF DRUG ADMINISTRATION | | |
|-------------------------|----------|-------|---------------------------------|------|-----|
| | 3 Wks | 2 Wks | 4 | 8 | 13 |
| <u>TNT - 1 mg/kg</u> | | | | | |
| 69 (M) | 1.2 | 0 | 8.4 | 4.3 | 4.1 |
| 70 (M) | 0 | 0 | 0 | 2.9 | 1.8 |
| 71 (M) | 11.5 | 0 | 6.4 | 18.7 | 2.0 |
| MEAN | 4.3 | 0 | 4.9 | 8.6 | 2.6 |
| 46 (F) | 6.4 | 0 | 5.2 | 3.5 | 2.0 |
| 47 (F) | 0 | 1.2 | 6.4 | 11.5 | 0 |
| 48 (F) | 0 | 0 | 0 | 2.4 | 0 |
| MEAN | 2.1 | 0.4 | 3.9 | 5.8 | 0.7 |
| <u>TNT - 0.1 mg/kg</u> | | | | | |
| 60 (M) | 0.8 | 0 | 7.2 | 3.2 | 1.7 |
| 62 (M) | 0 | 0 | 4.1 | 2.1 | 3.1 |
| 63 (M) | 0 | 0 | 3.6 | 1.7 | 0 |
| MEAN | 0.3 | 0 | 5.0 | 2.3 | 1.6 |
| 42 (F) | 1.8 | 0 | 0 | 3.4 | 1.4 |
| 38 (F) | 5.1 | 0 | 0 | 2.8 | 0.8 |
| 52 (F) | 0 | 4.5 | 8.7 | 12.4 | 3.0 |
| MEAN | 2.3 | 1.5 | 2.9 | 6.2 | 1.7 |
| <u>TNT - 0.02 mg/kg</u> | | | | | |
| 56 (M) | 0 | 0 | 8.1 | 4.0 | 0 |
| 57 (M) | 5.5 | 0 | 0 | 10.4 | 0 |
| 58 (M) | 0 | 2.9 | 2.3 | 7.9 | 0 |
| MEAN | 1.8 | 1.0 | 3.5 | 7.4 | 0 |
| 39 (F) | 0 | 0 | - | 0 | 0 |
| 44 (F) | 1.8 | 0 | 8.4 | 7.6 | 4.9 |
| 51 (F) | 3.3 | 0.3 | 6.5 | 5.8 | 0 |
| MEAN | 1.7 | 0.1 | 7.5 | 4.5 | 1.6 |

LITTON BIONETICS, INC.

TABLE 8

URINALYSIS

CONTROL 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 65 (M) | 66 (M) | 72 (M) |
| UGOT | 59 | 42 | 86 |
| Specific Gravity | 1.035 | 1.030 | 1.059 |
| pH | 7.0 | 6.5 | 8.0 |
| Protein | 30 mg | Trace | 50 mg |
| Sugar | Neg | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 15-18 | Rare | 2-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Few | - | - |
| Ca Oxalate* | Freq | Many | Occ |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | - | - |
| Triple Phosphate | Occ | Many | Many |
| Amorphous | Mod | Mod | Much |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 37 (F) | 43 (F) | 45 (F) |
| UGOT | 68 | 68 | 48 |
| Specific Gravity | 1.051 | 1.059 | 1.048 |
| pH | 6.0 | 7.0 | 7.0 |
| Protein | 50 mg | 50 mg | Neg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | 1+ | Neg | Neg |
| White Blood Cells* | 5-7 | 25-30 | 1-3 |
| Red Blood Cells* | Rare | - | - |
| Epithelial Cells* | Many | Few | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Small | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Freq |
| Triple Phosphate | Freq | Few | Freq |
| Amorphous | Heavy | Mod | Little |
| Sulfa | - | - | Occ |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 65 (M) | 66 (M) | 72 (M) |
| UGOT | 89 | 80 | 51 |
| Specific Gravity | 1.051 | 1.042 | 1.058 |
| pH | 8.0 | 9.0 | 9.0 |
| Protein | 50 mg | 50 mg | 30 mg |
| Sugar | Neg** | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 0-2 | 2-4 | 1-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | Occ |
| Ca Oxalate* | - | Few | - |
| Bacteria* | Heavy | Heavy | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | - | - |
| Triple Phosphate | Freq | Many | Many |
| Amorphous | Heavy | Heavy | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 37 (F) | 43 (F) | 45 (F) |
| UGOT | 68 | 45 | 57 |
| Specific Gravity | 1.056 | 1.042 | 1.040 |
| pH | 7.0 | 6.5 | 8.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Pos | Neg |
| White Blood Cells* | 15-20 | 18-22 | 2-4 |
| Red Blood Cells* | - | TNTC | - |
| Epithelial Cells* | Freq | Many | - |
| Ca Oxalate* | Few | - | Occ |
| Bacteria* | Mod | - | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Freq |
| Triple Phosphate | - | Occ | Freq |
| Amorphous | - | Mod | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 65 (M) | 66 (M) | 72 (M) |
| UGOT | 54 | 62 | 62 |
| Specific Gravity | 1.066 | 1.049 | 1.061 |
| pH | 6.0 | 7.0 | 7.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 5-25+ | 0-3 | - |
| Red Blood Cells* | 0-1 | - | - |
| Epithelial Cells* | Many | - | Few |
| Ca Oxalate* | Occ | Occ | - |
| Bacteria* | Occ | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | - | Many | Occ |
| Amorphous | - | - | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 37 (F) | 43 (F) | 45 (F) |
| UGOT | 74 | 62 | 42 |
| Specific Gravity | 1.052 | 1.053 | 1.040 |
| pH | 7.0 | 7.0 | 7.0 |
| Protein | Trace | 30 mg | Neg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 8-10 | 3-5 | Rare |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Freq | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | Occ | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Freq | Occ | Freq |
| Triple Phosphate | Occ | Freq | Occ |
| Amorphous | Mod | Heavy | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------------|--------|
| | 65 (M) | 66 (M) | 72 (M) |
| UGOT | 66 | 62 | 59 |
| Specific Gravity | 1.058 | 1.048 | 1.054 |
| pH | 7.0 | 8.0 | 7.5 |
| Protein | Trace | 50 mg | 50 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | Rare | 5-6 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Occ | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | Mod | Little |
| Casts* | - | Rare Hyaline | - |
| Crystals*: | | | |
| Uric Acid | Freq | - | - |
| Triple Phosphate | Occ | Mod | Mod |
| Amorphous | Little | - | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 37 (F) | 43 (F) | 45 (F) |
| UGOT | 70 | 25 | 49 |
| Specific Gravity | 1.047 | 1.026 | 1.048 |
| pH | 8.0 | 6.0 | 7.5 |
| Protein | Trace | Neg | Trace |
| Sugar | Neg** | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 0-3 | - | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Rare | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Heavy | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Mod | Rare | Few |
| Amorphous | - | - | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|------------|
| | 65 (M) | 66 (M) | 72 (M) |
| UGOT | 48 | 48 | 37 |
| Specific Gravity | 1.088 | 1.051 | 1.064 |
| pH | 7.5 | 7.5 | 8.0 |
| Protein | 100 mg | 100 mg | 100 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | - | - | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | 0-2 | - | 0.1 |
| Ca Oxalate* | Many | Many | Few |
| Bacteria* | - | Slight | - |
| Casts* | 0-1 | - | 0-2 |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Many | Many | Many |
| Amorphous | Mod | - | Mod |
| Sulfa | - | - | - |
| Remarks | Waxy casts | - | Waxy casts |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

CONTROL 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|------------|------------|
| | 37 (F) | 43 (F) | 45 (F) |
| UGOT | 55 | 48 | 34 |
| Specific Gravity | 1.058 | 1.063 | 1.055 |
| pH | 9.0 | 6.5 | 8.0 |
| Protein | 100 mg | Trace | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | - | - | 0-2 |
| Red Blood Cells* | - | - | 0-2 |
| Epithelial Cells* | 0-2 | 0-1 | - |
| Ca Oxalate* | Few | - | Many |
| Bacteria* | - | - | - |
| Casts* | - | 0-1 | 0-1 |
| Crystals*: | | | |
| Uric Acid | - | Many | - |
| Triple Phosphate | Many | - | Many |
| Amorphous | Mod | - | Mod |
| Sulfa | - | - | - |
| Remarks | - | Waxy casts | Waxy casts |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 55 (M) | 73 (M) | 74 (M) |
| UGOT | 65 | 59 | 54 |
| Specific Gravity | 1.067 | 1.032 | 1.048 |
| pH | 6.0 | 7.0 | 8.0 |
| Protein | 30 mg | Neg | Trace |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-5 | 4-5 | 0-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | - | Occ | Occ |
| Bacteria* | - | Small | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Many | - | - |
| Triple Phosphate | Many | Few | Many |
| Amorphous | Much | - | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LIHTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 49 (F) | 50 (F) | 76 (F) |
| UGOT | 36 | 48 | 36 |
| Specific Gravity | 1.024 | 1.031 | 1.056 |
| pH | 7.0 | 6.1 | 6.0 |
| Protein | Neg | Neg | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | 1+ | Neg |
| White Blood Cells* | 8-10 | 25-30 | 3-4 |
| Red Blood Cells* | - | 2-3 | - |
| Epithelial Cells* | Rare | Freq | Occ |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | - | Freq |
| Triple Phosphate | - | - | - |
| Amorphous | Heavy | Much | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 55 (M) | 73 (M) | 74 (M) |
| UGOT | 22 | 29 | 51 |
| Specific Gravity | 1.016 | 1.032 | 1.049 |
| pH | 7.0 | 8.0 | 7.5 |
| Protein | Neg | 30 mg | 30 mg |
| Sugar | Neg | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilir bin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 1-3 | 3-4 | 1-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Few | - |
| Ca Oxalate* | - | Freq | Freq |
| Bacteria* | Much | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Occ |
| Triple Phosphate | Freq | Freq | Occ |
| Amorphous | Much | - | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|-----------|
| | 49 (F) | 50 (F) | 76 (F) |
| UGOT | 54 | 36 | 45 |
| Specific Gravity | 1.033 | 1.034 | 1.048 |
| pH | 6.5 | 7.0 | 6.0 |
| Protein | Neg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 12-15 | 14-16 | 4-8 |
| Red Blood Cell * | - | - | - |
| Epithelial Cells* | - | Many | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Mod | - |
| Casts* | - | - | Occ. Waxy |
| Crystals*: | | | |
| Uric Acid | Freq | - | Many |
| Triple Phosphate | Occ | Occ | Occ |
| Amorphous | Heavy | Mod | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 55 (M) | 73 (M) | 74 (M) |
| UGOT | 45 | 88 | 190 |
| Specific Gravity | 1.035 | 1.034 | 1.039 |
| pH | 7.0 | 9.0 | 9.0 |
| Protein | Trace | 30 mg | 300 mg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | 1+ |
| White Blood Cells* | 3-6 | Rare | 2-5 |
| Red Blood Cells* | - | - | 6-7 |
| Epithelial Cells* | Rare | - | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Occ | Heavy |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Many | - | - |
| Triple Phosphate | Occ | - | - |
| Amorphous | Mod | Little | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 49 (F) | 50 (F) | 76 (F) |
| UGOT | 45 | 26 | 112 |
| Specific Gravity | 1.042 | 1.020 | 1.033 |
| pH | 6.0 | 5.0 | 9.0 |
| Protein | Neg | Neg | 100 mg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | Rare | Rare | 9-11 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Rare | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Heavy | Heavy |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Freq | - | - |
| Triple Phosphate | Occ | - | - |
| Amorphous | Little | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|-----------------------|
| | 55 (M) | 73 (M) | 74 (M) |
| UGOT | 18 | 34 | 59 |
| Specific Gravity | 1.016 | 1.023 | 1.042 |
| pH | 6.0 | 6.5 | 6.5 |
| Protein | 30 mg | Trace | 30 mg |
| Sugar | Neg** | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | Rare | 0-2 | 5-7 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | - | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Heavy | Heavy | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Occ |
| Triple Phosphate | - | - | Occ |
| Amorphous | Mod | Mod | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | Occ Mucous Threads |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 49 (F) | 50 (F) | 76 (F) |
| UGOT | 32 | 38 | 43 |
| Specific Gravity | 1.033 | 1.027 | 1.048 |
| pH | 7.0 | 6.0 | 7.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Trace | Trace | Neg |
| White Blood Cells* | 6-8 | 10-12 | 10-12 |
| Red Blood Cells* | Rare | Rare | - |
| Epithelial Cells* | Occ | Rare | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Occ | Heavy | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Occ |
| Triple Phosphate | Occ | - | - |
| Amorphous | Little | - | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|-------------------------|--------|
| | 55 (M) | 73 (M) | 74 (M) |
| UGOT | 40 | 37 | 52 |
| Specific Gravity | 1.034 | 1.038 | 1.034 |
| pH | 8.0 | 6.0 | 6.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 1-3 | 1-2 | 4-8 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | - | Freq |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | 0-1 | - |
| Crystals*: | | | |
| Uric Acid | - | Freq | Freq |
| Triple Phosphate | Occ | - | - |
| Amorphous | Mod | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | Coarsely gran. casts | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 10 mg/kg

13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|-----------------------|--------|
| | 49 (F) | 50 (F) | 76 (F) |
| UGOT | 48 | 21 | 44 |
| Specific Gravity | 1.041 | 1.018 | 1.063 |
| pH | 7.5 | 7.0 | 6.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Pos | Neg | Neg |
| White Blood Cells* | 2-5 | 2-3 | Rare |
| Red Blood Cells* | 6-8 | - | - |
| Epithelial Cells* | Freq | - | - |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | - | Heavy | - |
| Casts* | - | 2-3 | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Freq |
| Triple Phosphate | Occ | - | - |
| Amorphous | Heavy | - | Little |
| Sulfa | - | - | - |
| Remarks | - | Finely gran. casts | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 64 (M) | 68 (M) | 75 (M) |
| UGOT | 51 | 62 | 68 |
| Specific Gravity | 1.030 | 1.048 | 1.052 |
| pH | 7.0 | 8.0 | 8.0 |
| Protein | Trace | 50 mg | 100 mg |
| Sugar | Neg | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 6-8 | 2-4 | 5-7 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | Few |
| Ca Oxalate* | Occ | Many | Occ |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Many | - | Occ |
| Triple Phosphate | - | Few | Few |
| Amorphous | Heavy | Heavy | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 40 (F) | 41 (F) | 54 (F) |
| UGOT | 36 | 71 | 59 |
| Specific Gravity | 1.024 | 1.046 | 1.061 |
| pH | 6.0 | 7.0 | 6.0 |
| Protein | Neg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-5 | 1-3 | 10-20 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Freq | - |
| Ca Oxalate* | - | - | Few |
| Bacteria* | Mod | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Freq | - |
| Triple Phosphate | Freq | Many | Many |
| Amorphous | - | - | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

PDX - 1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 64 (M) | 68 (M) | 75 (M) |
| UGOT | 86 | 51 | 68 |
| Specific Gravity | 1.042 | 1.045 | 1.040 |
| pH | 8.5 | 7.0 | 8.5 |
| Protein | 30 mg | 30 mg | 50 mg |
| Sugar | Neg** | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 8-10 | 1-2 | 2-4 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Occ | Heavy |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Many | Many | - |
| Triple Phosphate | - | Occ | Many |
| Amorphous | Much | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 40 (F) | 41 (F) | 54 (F) |
| UGOT | 36 | 59 | 59 |
| Specific Gravity | 1.031 | 1.041 | 1.060 |
| pH | 6.0 | 6.5 | 7.0 |
| Protein | Trace | Trace | 30 mg |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 4-6 | 7-10 | 12-15 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Freq | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | - | Little |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Freq | Occ |
| Triple Phosphate | Freq | Freq | Freq |
| Amorphous | Mod | - | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|---------|
| | 64 (M) | 68 (M) | 75 (M) |
| UGOT | 88 | 74 | D E A D |
| Specific Gravity | 1.064 | 1.049 | |
| pH | 9.0 | 9.0 | |
| Protein | 50 mg | 50 mg | |
| Sugar | Neg | Neg | |
| Ketones | Neg | Neg | |
| Bilirubin | Neg | Neg | |
| Occult Blood | Neg | Neg | |
| White Blood Cells* | 1-2 | 2-3 | |
| Red Blood Cells* | - | - | |
| Epithelial Cells* | Rare | - | |
| Ca Oxalate* | - | - | |
| Bacteria* | - | - | |
| Casts* | - | - | |
| Crystals*: | | | |
| Uric Acid | Freq | Freq | |
| Triple Phosphate | Freq | Freq | |
| Amorphous | Heavy | Heavy | |
| Sulfa | - | - | |
| Remarks | - | - | |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 40 (F) | 41 (F) | 54 (F) |
| UGOT | 160 | 62 | - |
| Specific Gravity | 1.030 | 1.033 | - |
| pH | 9.0 | 6.5 | - |
| Protein | 500 mg | Neg | - |
| Sugar | Neg | Neg | - |
| Ketones | Neg | Neg | - |
| Bilirubin | Neg | Neg | - |
| Occult Blood | Neg | Neg | - |
| White Blood Cells* | Rare | 1-2 | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Rare | Occ | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Occ | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | - | - | - |
| Amorphous | Mod | Little | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|---------|
| | 64 (M) | 68 (M) | 75 (M) |
| UGOT | 78 | 30 | D E A D |
| Specific Gravity | 1.058 | 1.014 | |
| pH | 9.0 | 8.0 | |
| Protein | 1000 mg | Trace | |
| Sugar | Neg | Neg** | |
| Ketones | Neg | Neg | |
| Bilirubin | Neg | Neg | |
| Occult Blood | Neg | Neg | |
| White Blood Cells* | 2-5 | 1-2 | |
| Red Blood Cells* | - | - | |
| Epithelial Cells* | Rare | Rare | |
| Ca Oxalate* | - | - | |
| Bacteria* | Heavy | Mod | |
| Casts* | - | - | |
| Crystals*: | | | |
| Uric Acid | Occ | Freq | |
| Triple Phosphate | Many | - | |
| Amorphous | Mod | Little | |
| Sulfa | - | - | |
| Remarks | - | - | |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|-----------------------|--------|--------|
| | 40 (F) | 41 (F) | 54 (F) |
| UGOT | 22 | 70 | 47 |
| Specific Gravity | 1.019 | 1.050 | 1.063 |
| pH | 6.0 | 6.0 | 7.0 |
| Protein | Trace | Trace | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-4 | Rare | 15-20 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | - | - |
| Casts* | 0-1 | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | - |
| Triple Phosphate | - | Occ | Occ |
| Amorphous | Little | Little | Little |
| Sulfa | - | - | - |
| l .marks | Finely gra.. casts | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 13 WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|------------|---------|
| | 64 (M) | 68 (M) | 75 (M) |
| UGOT | 66 | 21 | D E A D |
| Specific Gravity | 1.063 | 1.020 | |
| pH | 9.0 | 7.0 | |
| Protein | 30 mg | Trace | |
| Sugar | Neg** | Neg | |
| Ketones | Neg | Neg | |
| Bilirubin | Neg | Neg | |
| Occult Blood | Neg | Neg | |
| White Blood Cells* | 2-3 | 0-1 | |
| Red Blood Cells* | - | - | |
| Epithelial Cells* | - | - | |
| Ca Oxalate* | - | - | |
| Bacteria* | - | Heavy | |
| Casts* | - | Occ | |
| Crystals*: | | | |
| Uric Acid | - | Freq | |
| Triple Phosphate | Freq | - | |
| Amorphous | Mod | - | |
| Sulfa | - | - | |
| Remarks | - | Waxy casts | |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|-------------------------|------------|--------|
| | 40 (F) | 41 (F) | 54 (F) |
| UGOT | 30 | 62 | 37 |
| Specific Gravity | 1.027 | 1.038 | 1.049 |
| pH | 6.0 | 7.0 | 6.5 |
| Protein | Neg | Trace | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | Occ | Rare |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | Freq |
| Ca Oxalate* | - | Occ | - |
| Bacteria* | Little | - | - |
| Casts* | 0-1 | Occ | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Freq |
| Triple Phosphate | - | Occ | - |
| Amorphous | Little | - | Heavy |
| Sulfa | - | - | - |
| Remarks | Coarsely gran. casts | Waxy casts | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 3 KS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 59 (M) | 61 (M) | 67 (M) |
| UGOT | 54 | 45 | 51 |
| Specific Gravity | 1.046 | 1.029 | 1.027 |
| pH | 8.0 | 8.0 | 7.0 |
| Protein | 100 mg | Trace | Trace |
| Sugar | Neg | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 0-2 | 0-3 | Rare |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | - | Few | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Few |
| Triple Phosphate | Many | Many | - |
| Amorphous | - | - | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 35 (F) | 36 (F) | 53 (F) |
| UGOT | 39 | 59 | 62 |
| Specific Gravity | 1.024 | 1.031 | 1.051 |
| pH | 5.5 | 6.5 | 7.0 |
| Protein | Trace | Trace | Trace |
| Sugar | Neg** | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 1-3 | 3-5 | 8-10 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Few | - |
| Triple Phosphate | Occ | Few | Many |
| Amorphous | Mod | - | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 59 (M) | 61 (M) | 67 (M) |
| UGOT | 59 | 65 | 74 |
| Specific Gravity | 1.046 | 1.042 | 1.029 |
| pH | 6.5 | 7.0 | 9.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 7-10 | 2-4 | 4-5 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Few | - | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | Heavy |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Freq | Freq | Freq |
| Triple Phosphate | Occ | - | Many |
| Amorphous | Little | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|-------------------------|
| | 35 (F) | 36 (F) | 53 (F) |
| UGOT | 45 | 77 | 62 |
| Specific Gravity | 1.027 | 1.049 | 1.056 |
| pH | 7.0 | 7.0 | 7.0 |
| Protein | Trace | Trace | 30 mg |
| Sugar | Neg | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | 8-10 | TNTC |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Few | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | 0-1 |
| Crystals*: | | | |
| Uric Acid | Occ | - | - |
| Triple Phosphate | Occ | Freq | Many |
| Amorphous | Mod | Mod | Little |
| Sulfa | - | - | - |
| Remarks | - | - | Coarsely gran. casts |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg

4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 59 (M) | 61 (M) | 67 (M) |
| UGOT | 70 | 78 | 82 |
| Specific Gravity | 1.054 | 1.064 | 1.062 |
| pH | 6.0 | 6.0 | 7.5 |
| Protein | Trace | 30 mg | 30 mg |
| Sugar | Neg** | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-5 | 1-3 | 10-12 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | Occ |
| Ca Oxalate* | - | Occ | - |
| Bacteria* | - | - | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Few | Occ | - |
| Triple Phosphate | Few | Freq | Many |
| Amorphous | Heavy | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|-----------------------|
| | 35 (F) | 36 (F) | 53 (F) |
| UGOT | 62 | 78 | 66 |
| Specific Gravity | 1.034 | 1.049 | 1.049 |
| pH | 7.0 | 6.5 | 7.0 |
| Protein | Neg | Trace | 30 mg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | tr |
| Occult Blood | Neg | Neg | |
| White Blood Cells* | 5-10 | 15-20 | |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Many | Occ | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | Occ |
| Casts* | - | - | 0-1 |
| Crystals*: | | | |
| Uric Acid | Freq | Occ | Occ |
| Triple Phosphate | Freq | Many | - |
| Amorphous | Heavy | Mod | - |
| Sulfa | - | - | - |
| Remarks | - | - | Finely gran. casts |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|---------------|--------|
| | 59 (M) | 61 (M) | 67 (M) |
| UGOT | 52 | 62 | 57 |
| Specific Gravity | 1.044 | 1.054 | 1.039 |
| pH | 7.0 | 7.0 | 7.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | - |
| White Blood Cells* | 3-5 | 1-3 | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Few | Rare | - |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | Occ | Little | Occ |
| Casts* | - | Occ | - |
| Crystals*: | | | |
| Uric Acid | Occ | Freq | - |
| Triple Phosphate | Freq | Occ | Occ |
| Amorphous | Mod | Mod | Little |
| Sulfa | - | - | - |
| Remarks | - | Hyaline casts | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg

8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 35 (F) | 36 (F) | 53 (F) |
| UGOT | 36 | 62 | 45 |
| Specific Gravity | 1.026 | 1.039 | 1.044 |
| pH | 7.0 | 7.0 | 7.0 |
| Protein | Trace | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 6-8 | 7-10 | 1-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | Occ | Occ | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Freq | Freq | - |
| Amorphous | Heavy | Mod | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 13 WEEKS

| | DOG NO. & SEX | | |
|--------------------|------------------------|---|--------|
| | 59 (M) | 61 (M) | 67 (M) |
| UGOT | 48 | 78 | 70 |
| Specific Gravity | 1.048 | 1.066 | 1.066 |
| pH | 7.0 | 7.0 | 8.0 |
| Protein | 30 mg | 100 mg | 50 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-5 | 8-10 | 5-8 |
| Red Blood Cells* | - | - | - |
| Epithelial Cell.* | - | - | - |
| Ca Oxalate* | Occ | - | Occ |
| Bacteria* | - | - | - |
| Casts* | - | 0-1 ¹ Rare ² 1-2 ³ | - |
| Crystals*: | | | |
| Uric Acid | Freq | Freq | - |
| Triple Phosphate | Occ | - | Freq |
| Amorphous | Heavy | Heavy | Mod |
| Sulfa | - | - | - |
| Remarks | Occ leucine spheres | 1Coarsely gran. casts 2Waxy casts 3Finely gran. casts | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

RDX - 0.1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 35 (F) | 36 (F) | 53 (F) |
| UGOT | 27 | 70 | 40 |
| Specific Gravity | 1.048 | 1.049 | 1.062 |
| pH | 7.0 | 6.5 | 7.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Pos | Neg |
| White Blood Cells* | 0-3 | 2-4 | 6-8 |
| Red Blood Cells* | - | Rare | - |
| Epithelial Cells* | Occ | Few | - |
| Ca Oxalate* | Mod | - | Occ |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Freq | Many |
| Triple Phosphate | Mod | - | - |
| Amorphous | Slight | Little | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 69 (M) | 70 (M) | 71 (M) |
| UGOT | 4 | 48 | 48 |
| Specific Gravity | 1.058 | 1.031 | 1.026 |
| pH | 7.0 | 7.0 | 7.5 |
| Protein | 50 mg | Trace | Trace |
| Sugar | Neg** | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-5 | 8-10 | 18-20 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | Rare |
| Ca Oxalate* | - | Occ | Rare |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | - |
| Triple Phosphate | Few | Occ | Many |
| Amorphous | Much | Mod | - |
| Sulfa | Freq | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 46 (F) | 47 (F) | 48 (F) |
| UGOT | 68 | 71 | 54 |
| Specific Gravity | 1.048 | 1.054 | 1.039 |
| pH | 7.5 | 7.5 | 6.0 |
| Protein | 30 mg | 30 mg | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 15-18 | 12-15 | 6-7 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Occ | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Many | Many | - |
| Amorphous | Heavy | - | Little |
| Sulfa | Occ | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|-------------------------|
| | 69 (M) | 70 (M) | 71 (M) |
| UGOT | 71 | 65 | 71 |
| Specific Gravity | 1.040 | 1.035 | 1.028 |
| pH | 7.0 | 6.5 | 7.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Trace | Neg |
| White Blood Cells* | 8-10 | 0-10 | 12-15 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | 1-2 | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | - | Mod |
| Casts* | - | - | 0-1 |
| Crystals*: | | | |
| Uric Acid | Many | - | Freq |
| Triple Phosphate | - | - | Occ |
| Amorphous | Mod | Heavy | Little |
| Sulfa | - | - | - |
| Remarks | - | - | Coarsely gran. casts |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 46 (F) | 47 (F) | 48 (F) |
| UGOT | 68 | 54 | 57 |
| Specific Gravity | - | 1.050 | 1.048 |
| pH | 8.0 | 7.0 | 6.5 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Pos | Neg | Neg |
| White Blood Cells* | 9-12 | 7-10 | 4-8 |
| Red Blood Cells* | 8-10 | - | - |
| Epithelial Cells* | - | Occ | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Many | Many |
| Triple Phosphate | Freq | Few | Occ |
| Amorphous | Little | Mod | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 69 (M) | 70 (M) | 71 (M) |
| UGOT | 132 | 202 | 190 |
| Specific Gravity | 1.030 | 1.025 | 1.029 |
| pH | 9.0 | 9.0 | 9.0 |
| Protein | 300 mg | 600 mg | 500 mg |
| Sugar | Neg | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 6-8 | 5-8 | 2-5 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Mod | Heavy |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Occ | - | Freq |
| Amorphous | Heavy | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 46 (F) | 47 (F) | 48 (F) |
| UGOT | 222 | 222 | 62 |
| Specific Gravity | 1.026 | 1.048 | 1.074 |
| pH | 9.0 | 9.0 | 6.0 |
| Protein | 300 mg | 300 mg | 30 mg |
| Sugar | Neg | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-5 | Rare | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Rare | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Mod | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Rare | - | - |
| Amorphous | Heavy | Little | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|---------------------|---------------------|
| | 69 (M) | 70 (M) | 71 (M) |
| UGOT | 59 | 54 | 54 |
| Specific Gravity | 1.048 | 1.035 | 1.035 |
| pH | 6.5 | 7.0 | 7.0 |
| Protein | 30 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | Rare | 2-4 | 1-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Occ | Occ |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | - | Occ | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | Occ | Occ |
| Triple Phosphate | Occ | Occ | Occ |
| Amorphous | Little | - | Mod |
| Sulfa | - | - | - |
| Remarks | - | Many mucous threads | Many mucous threads |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 46 (F) | 47 (F) | 48 (F) |
| UGOT | 40 | 49 | 32 |
| Specific Gravity | 1.034 | 1.049 | 1.048 |
| pH | 7.0 | 7.0 | 6.5 |
| Protein | Trace | Neg | Neg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | Rare | Rare |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | - | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | Occ | - |
| Triple Phosphate | Occ | Occ | - |
| Amorphous | Little | Little | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 69 (M) | 70 (M) | 71 (M) |
| UGOT | 48 | 37 | 118 |
| Specific Gravity | 1.039 | 1.018 | 1.039 |
| pH | 6.5 | 7.0 | 8.0 |
| Protein | Trace | Neg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 1-2 | 1-2 | 10-12 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Mod | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | Freq | - |
| Triple Phosphate | - | - | Freq |
| Amorphous | Mod | Little | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 46 (F) | 47 (F) | 48 (F) |
| UGOT | 55 | 62 | 55 |
| Specific Gravity | 1.035 | 1.049 | 1.051 |
| pH | 8.0 | 8.0 | 7.0 |
| Protein | Trace | Trace | Trace |
| Sugar | Neg | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | Occ | 1-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Occ | - |
| Ca Oxalate* | - | - | Occ |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Occ |
| Triple Phosphate | Occ | Occ | Occ |
| Amorphous | Mod | Little | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 60 (M) | 62 (M) | 63 (M) |
| UGOT | 74 | 62 | 48 |
| Specific Gravity | 1.058 | 1.033 | 1.035 |
| pH | 7.0 | 8.0 | 7.0 |
| Protein | 50 mg | 30 mg | Trace |
| Sugar | Neg | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | - | - | 5-8 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | Occ |
| Ca Oxalate* | Many | Few | - |
| Bacteria* | - | - | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Many | Many | Mod |
| Amorphous | - | Some | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 42 (F) | 38 (F) | 52 (F) |
| UGOT | 62 | 54 | 83 |
| Specific Gravity | 1.049 | 1.040 | 1.058 |
| pH | 6.0 | 7.0 | 7.0 |
| Protein | 30 mg | Trace | 30 mg |
| Sugar | Neg** | Neg** | Trace |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 30-35 | 10-12 | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Few | - |
| Ca Oxalate* | Occ | Occ | Few |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | Occ | Many | Many |
| Amorphous | - | Heavy | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | | |
|--------------------|---------------|--------|--------------------|--|
| | 60 (M) | 62 (M) | 63 (M) | |
| UGOT | 95 | 51 | 27 | |
| Specific Gravity | 1.060 | 1.027 | 1.033 | |
| pH | 7.0 | 7.0 | 7.5 | |
| Protein | 50 mg | Neg | Trace | |
| Sugar | Neg** | Neg** | Neg** | |
| Ketones | Neg | Neg | Neg | |
| Bilirubin | Neg | Neg | Neg | |
| Occult Blood | Neg | Neg | Neg | |
| White Blood Cells* | 2-4 | 6-8 | - | |
| Red Blood Cells* | - | - | - | |
| Epithelial Cells* | - | - | Freq | |
| Ca Oxalate* | - | - | Occ | |
| Bacteria* | - | - | - | |
| Casts* | - | - | 0-2 | |
| Crystals*: | | | | |
| Uric Acid | Many | Occ | - | |
| Triple Phosphate | Many | Occ | Many | |
| Amorphous | Mod | Mod | Mod | |
| Sulfa | - | - | - | |
| Remarks | - | - | Finely gran. casts | |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 42 (F) | 38 (F) | 52 (F) |
| UGOT | 51 | 65 | 92 |
| Specific Gravity | 1.040 | 1.048 | 1.049 |
| pH | 6.5 | 8.0 | 7.0 |
| Protein | Trace | Trace | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 25-35 | 8-10 | 0-1 |
| Red Blood Cells | - | - | - |
| Epithelial Cells* | Few | Freq | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | Small |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Freq | - | Many |
| Triple Phosphate | Few | Freq | - |
| Amorphous | Little | Mod | Many |
| Sulfa | - | - | Some |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | | | | |
|--------------------|---------------|-----|-------|-----|--------|-----|
| | 60 | (M) | 62 | (M) | 63 | (M) |
| UGOT | 150 | | 102 | | 78 | |
| Specific Gravity | 1.056 | | 1.048 | | 1.049 | |
| pH | 9.0 | | 9.0 | | 9.0 | |
| Protein | 300 mg | | 30 mg | | 30 mg | |
| Sugar | Neg | | Neg | | Neg | |
| Ketones | Neg | | Neg | | Neg | |
| Bilirubin | Neg | | Neg | | Neg | |
| Occult Blood | Neg | | Neg | | Neg | |
| White Blood Cells* | 4-6 | | 5-7 | | 8-10 | |
| Red Blood Cells* | - | | - | | - | |
| Epithelial Cells* | - | | - | | - | |
| Ca Oxalate* | Freq | | - | | - | |
| Bacteria* | Heavy | | Heavy | | Little | |
| Casts* | - | | - | | - | |
| Crystals*: | | | | | | |
| Uric Acid | - | | - | | - | |
| Triple Phosphate | Occ | | - | | Occ | |
| Amorphous | Heavy | | Heavy | | Little | |
| Sulfa | - | | - | | - | |
| Remarks | - | | - | | - | |

*Microscopic (per high power field)

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 42 (F) | 38 (F) | 52 (F) |
| UGOT | 74 | 8 | 78 |
| Specific Gravity | 1.028 | 1.006 | 1.034 |
| pH | 9.0 | 6.0 | 9.0 |
| Protein | 30 mg | Neg | 30 mg |
| Sugar | Neg | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | 1+ | - | - |
| White Blood Cells* | 0-2 | 0-2 | 2-4 |
| Red Blood Cells* | Rare | - | - |
| Epithelial Cells* | - | Rare | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | Occ | Heavy | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | - | Occ | Few |
| Amorphous | Heavy | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------------|
| | 60 (M) | 62 (M) | 63 (M) |
| UGOT | 62 | 59 | 78 |
| Specific Gravity | 1.066 | 1.048 | 1.048 |
| pH | 9.0 | 7.0 | 9.0 |
| Protein | 300 mg | 30 mg | 1000 mg |
| Sugar | Neg | Neg** | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | 3-5 | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Occ | - |
| Ca Oxalate* | - | Mod | - |
| Bacteria* | Mod | - | Many |
| Casts* | 0-2 | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Occ |
| Triple Phosphate | Freq | Occ | Occ |
| Amorphous | Mod | - | - |
| Sulfa | - | - | - |
| Remarks | Hyaline casts | - | Motile bact. |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 42 (F) | 38 (F) | 52 (F) |
| UGOT | 62 | 59 | 38 |
| Specific Gravity | 1.059 | 1.025 | 1.032 |
| pH | 6.0 | 7.0 | 7.0 |
| Protein | Trace | Neg | Trace |
| Sugar | Neg** | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-6 | 2-3 | 1-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Rare | Rare | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | Occ | Heavy | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Occ |
| Triple Phosphate | Occ | - | - |
| Amorphous | Little | Little | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 60 (M) | 62 (M) | 63 (M) |
| UGOT | 66 | 66 | 37 |
| Specific Gravity | 1.084 | 1.048 | 1.032 |
| pH | 6.5 | 7.0 | 6.5 |
| Protein | 100 mg | Trace | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 0-2 | 2-3 | - |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | Occ | Freq | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Freq | Freq | Few |
| Triple Phosphate | - | - | - |
| Amorphous | Mod | Little | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.1 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|-------------------------|--------|--------|
| | 2 (F) | 38 (F) | 52 (F) |
| UGOT | 37 | 66 | 52 |
| Specific Gravity | 1.048 | 1.049 | 1.044 |
| pH | 8.0 | 6.5 | 7.0 |
| Protein | 30 mg | Trace | 30 mg |
| Sugar | 1+** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | 1-2 | Rare |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | Few | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | Occ | - | - |
| Casts* | 0-2 | - | - |
| Crystals*: | | | |
| Uric Acid | - | Few | - |
| Triple Phosphate | Freq | - | Occ |
| Amorphous | Mod | Mod | Mod |
| Sulfa | - | - | - |
| Remarks | Coarsely gran. casts | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 56 (M) | 57 (M) | 58 (M) |
| UGOT | 62 | 80 | 68 |
| Specific Gravity | 1.067 | 1.054 | 1.047 |
| pH | 6.0 | 7.0 | 7.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 15-20 | - | 5-8 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | - | - |
| Ca Oxalate* | - | Many | Many |
| Bacteria* | - | Some | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | - | - |
| Triple Phosphate | - | Many | Many |
| Amorphous | Heavy | - | - |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 3 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 39 (F) | 44 (F) | 51 (F) |
| UGOT | 86 | 68 | 86 |
| Specific Gravity | 1.049 | 1.058 | 1.058 |
| pH | 7.0 | 6.0 | 7.5 |
| Protein | Trace | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilir in | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 25-30 | 10-12 | 1-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | Freq | Occ |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | - |
| Triple Phosphate | Few | - | Many |
| Amorphous | Heavy | Mod | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 56 (M) | 57 (M) | 58 (M) |
| UGOT | 51 | 62 | 71 |
| Specific Gravity | 1.008 | 1.047 | 1.048 |
| pH | 7.0 | 7.0 | 9.0 |
| Protein | Neg | 30 mg | 100 mg |
| Sugar | Neg | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-5 | 6-8 | 2-5 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Occ | - | - |
| Ca Oxalate* | - | Occ | - |
| Bacteria* | Mod | - | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Few |
| Triple Phosphate | - | Freq | Many |
| Amorphous | Mod | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 2 WEEKS PRE-DRUG

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 39 (F) | 44 (F) | 51 (F) |
| UGOT | 68 | 105 | 71 |
| Specific Gravity | 1.055 | 1.067 | 1.062 |
| pH | 7.0 | 6.0 | 8.0 |
| Protein | 30 mg | 30 mg | Trace |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 10-15 | 10-12 | 2-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Few | Few | Few |
| Ca Oxalate* | - | Occ | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | Freq |
| Triple Phosphate | Many | - | Freq |
| Amorphous | Mod | Much | - |
| Sulfa | - | - | - |
| Rema : | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 56 (M) | 57 (M) | 58 (M) |
| UGOI | 102 | 82 | 142 |
| Specific Gravity | 1.065 | 1.035 | 1.058 |
| pH | 8.0 | 9.0 | 9.0 |
| Protein | 100 mg | 30 mg | 300 mg |
| Sugar | Neg** | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 8-10 | 12-15 | 1-3 |
| Red blood Cells* | - | - | - |
| Epithelial Cells* | Rare | - | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | Mod | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | - | - | - |
| Amorphous | Little | Heavy | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 4-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 39 (F) | 44 (F) | 51 (F) |
| UGOT | 126 | 82 | 138 |
| Specific Gravity | 1.051 | 1.031 | 1.043 |
| pH | 9.0 | 9.0 | 9.0 |
| Protein | 300 mg | 30 mg | Trace |
| Sugar | Neg** | Neg | Neg |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-6 | 18-20 | 1-3 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Rare | Rare | Rare |
| Ca Oxalate* | - | - | - |
| Bacteria* | Mod | Mod | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | - | - |
| Triple Phosphate | - | - | Occ |
| Amorphous | Mod | Mod | Heavy |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 56 (M) | 57 (M) | 58 (M) |
| UGOT | 70 | 47 | 66 |
| Specific Gravity | 1.060 | 1.049 | 1.058 |
| pH | 7.0 | 7.0 | 8.0 |
| Protein | 100 mg | 30 mg | 50 mg |
| Sugar | Neg | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 3-5 | 1-3 | 0-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | - | Occ |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | Mod | - | Occ |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | Occ | Occ | Occ |
| Triple Phosphate | Occ | Occ | Occ |
| Amorphous | Mod | Little | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 3 (continued)

URINALYSIS

TNI - 0.02 mg/kg 8-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|------------------------|
| | 39 (F) | 44 (F) | 51 (F) |
| UGOT | 8 | 66 | 70 |
| Specific Gravity | 1.055 | 1.054 | 1.055 |
| pH | 9.0 | 7.0 | 7.0 |
| Protein | 100 mg | 50 mg | Trace |
| Sugar | Neg** | Neg | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 14-16 | 8-12 | 1-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | Occ | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Occ | Occ |
| Triple Phosphate | Occ | Occ | Rar |
| Amorphous | Mod | Little | Little |
| Sulfa | - | - | - |
| Remarks | - | - | Occ leucene spheres |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 56 (M) | 57 (M) | 58 (M) |
| UGOT | 66 | 62 | 40 |
| Specific Gravity | 1.061 | 1.052 | 1.031 |
| pH | 8.0 | 6.5 | 7.0 |
| Protein | 50 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occult Blood | Neg | Neg | Neg |
| White Blood Cells* | 2-4 | Rare | 2-4 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | - | - | - |
| Ca Oxalate* | - | - | - |
| Bacteria* | - | - | Mod |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Many | Occ |
| Triple Phosphate | Freq | - | Occ |
| Amorphous | N | Mod | Mod |
| Sulfa | - | - | - |
| Remarks | - | - | - |

*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINALYSIS

TNT - 0.02 mg/kg 13-WEEKS

| | DOG NO. & SEX | | |
|--------------------|---------------|--------|--------|
| | 39 (F) | 44 (F) | 51 (F) |
| UGOT | 58 | 66 | 90 |
| Specific Gravity | 1.055 | 1.059 | 1.062 |
| pH | 8.0 | 6.0 | 6.0 |
| Protein | 30 mg | 30 mg | 30 mg |
| Sugar | Neg** | Neg** | Neg** |
| Ketones | Neg | Neg | Neg |
| Bilirubin | Neg | Neg | Neg |
| Occ. . Blood | Neg | Neg | Neg |
| White Blood Cells* | - | 1-3 | 1-2 |
| Red Blood Cells* | - | - | - |
| Epithelial Cells* | Freq | - | - |
| Ca Oxalate* | Occ | - | - |
| Bacteria* | - | - | - |
| Casts* | - | - | - |
| Crystals*: | | | |
| Uric Acid | - | Freq | Occ |
| Triple Phosphate | - | - | - |
| Amorphous | Mod-Heavy | Mod | Little |
| Sulfa | - | - | - |
| Remarks | - | - | - |

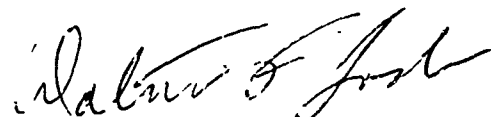
*Microscopic (per high power field)

**Positive for non-glucose reducing substances.

PATHOLOGY SUMMARY

No major significant microscopic lesions were observed in either the high dosage RDX or the high dosage TNT groups which were not observed in controls. The incidence of microcalculi in the renal pelvis was higher in the test animals, in particular, those treated with RDX. The incidence of hemosiderosis of the bone marrow was higher in the animals treated with TNT. The small sizes of the groups used in this study make interpretation of the increases in incidences of renal microcalculi and of bone marrow hemosiderosis highly precarious.

10 June 1974



WALTER F. LOEB, V.M.D., Ph.D.**BIONETICS**

LITTON BIONETICS, INC.

SUMMARY OF MICROSCOPIC LESIONS

| | CONTROL | RDX 10 mg/kg | TNT 1 mg/kg |
|--|---------|-----------------|----------------|
| Heart | | | |
| No visible lesions (NVL) | 5 | 5 | 6 |
| Medial thickening of muscular arteries | 1 | | |
| Focal hyalinization | | 1 | |
| Lung | | | |
| NVL | 3 | 2 | 3* |
| Congestion | 3 | 3 | |
| Edema | 2 | 2 | |
| Mineralization | 1 | | |
| Lymphoid nodules | 1 | | |
| Alveolar thickening | | | 1 |
| Anthracosis | | 1 | |
| Granulomas (minute) | 1 | | 1 |
| Liver | | | |
| NVL | 3 | 4 | 6 |
| Extramedullary hematopoiesis | 2 | 1 | |
| Dilatation and thickening of portal and central veins | 1 | | |
| Multifocal lymphoreticular infiltrate | | 1 | |
| Spleen | | | |
| NVL | 2 | 3 | 2 |
| Congestion | 4 | 3 | 4 |
| Lymphoid hypoplasia | | 2 | 2 |
| Intestine | | | |
| NVL | 3 | 5 | 6 |
| Lymphoid hyperplasia | 3 | 1 | |
| Kidneys | | | |
| NVL | 5 | 2 | 4 |
| Microcalculi in pelvis | 1 | 4 | 2 |
| Thyroid | | | |
| NVL | 6 | 5 | 5 |
| C-cell hyperplasia | | 1 | 1 |
| Bone Marrow | | | |
| NVL | 6 | 5 | 3 |
| Hemosiderosis | | 1 | 3 |

*Lungs collected from only five dogs.

Dog No. 65

(Male) Control

PM NO. 73/2224

GROSS FINDINGS: Lungs congested, hemorrhage in duodenum about 3 inches long.

ORGAN WEIGHTS:
(in grams)

| | | | |
|--------------|---------------|-------------|----------------------|
| <u>.82</u> | Thyroid | <u>.61</u> | Adrenal Gland, Left |
| <u>67.0</u> | Heart | <u>.50</u> | Adrenal Gland, Right |
| <u>189.0</u> | Liver | <u>7.14</u> | Gonad, Left |
| <u>41.0</u> | Spleen | <u>6.95</u> | Gonad, Right |
| <u>21.4</u> | Kidney, Left | | |
| <u>21.10</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lungs: Very marked congestion and edema. Foci of mineralization, corpora amylacea, peribronchially.

Liver: Minimal extramedullary hematopoiesis; Gallbladder: NVL.

Spleen: Congestion.

Stomach: Not collected.

Intestine with Peyer's patch: Intestine: NVL
Peyer's patch: Reticulum cell hyperplasia;
many macrophages containing necrotic
cell remnants.

Kidneys: NVL

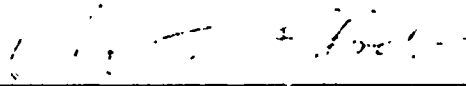
Adrenals: NVL

Thyroids, Parathyroids: NVL

Bone Marrow: Grade II, 50%. NVL

Brain: NVL

4 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 66

(Male) Control

PM NO. 73/2225

GROSS FINDINGS: No gross lesions.

| | | | | |
|-------------------------------------|--------------|----------------|-------------|-----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.71</u> | Thyroid | <u>.47</u> | Adrenal Gland (Left) |
| | <u>84.0</u> | Heart | <u>.32</u> | Adrenal Gland (Right) |
| | <u>230</u> | Liver | <u>8.68</u> | Gonad (Left) |
| | <u>83</u> | Spleen | <u>8.79</u> | Gonad (Right) |
| | <u>26.54</u> | Kidney (Left) | | |
| | <u>25.70</u> | Kidney (Right) | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lungs: NVL

Liver: Extramedullary hematopoiesis. No other lesions.

Spleen: Congestion.

Stomach: NVL

Intestine: NVL

Kidney: Protein droplets present in Bowman's spaces.

Adrenals: NVL

Thyroid: Missing.

Bone Marrow: Grade II, 25%. NVL

Brain: NVL

4 June 1974

Walter F. Loeb, V.M.D., Ph.D.

Dog No. 72 (Male) Control

PM NO. 73/2226

GROSS FINDINGS: Congestion of the pelvic urethra.

| | | | | |
|-------------------------------------|------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.71</u> | Thyroid | <u>.81</u> | Adrenal Gland, Left |
| | <u>65</u> | Heart | <u>.74</u> | Adrenal Gland, Right |
| | <u>227</u> | Liver | <u>8</u> | Gonad, Left |
| | <u>18</u> | Spleen | <u>6</u> | Gonad, Right |
| | <u>25</u> | Kidney, Left | | |
| | <u>25</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (IIVL).

Lung: Marked congestion, slight edema.

Liver: NVL

Spleen: NVL

Stomach: NVL

Intestine: Marked hyperplasia of Peyers patches with increased mitotic figures.

Kidneys: NVL

Adrenals: NVL

Thyroid: NVL

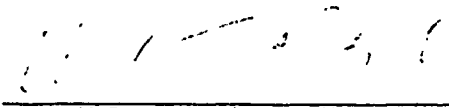
Bone Marrow: Grade II, 55%. NVL

Brain: NVL

Prostate: NVL

Bladder: NVL

4 June 1974


 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 37 (Female) Control

PM NO. 73/2227

GROSS FINDINGS: Lungs are congested severely.

| | | | | |
|-------------------------------------|--------------|---------------|-------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.88</u> | Thyroid | <u>1.73</u> | Adrenal Gland, Left |
| | <u>69</u> | Heart | <u>1.62</u> | Adrenal Gland, Right |
| | <u>301</u> | Liver | <u>.71</u> | Gonad, Left |
| | <u>34</u> | Spleen | <u>.73</u> | Gonad, Right |
| | <u>24.22</u> | Kidney, Left | | |
| | <u>24.04</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Extreme congestion. Few small lymphocytic nodules.

Liver: NVL

Spleen: Contracted.

Stomach: NVL

Intestine: NVL

Kidney: NVL


Adrenals: NVL

Thyroid, Parathyroid: NVL

Bone Marrow: Grade II, 60%. NVL

Brain: NVL

4 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 43 (Female) Control

PM NO. 73/2228

GROSS FINDINGS: No gross lesions.

| | | | | |
|-------------------------------------|--------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.75</u> | Thyroid | <u>.62</u> | Adrenal Gland, Left |
| | <u>56.0</u> | Heart | <u>.50</u> | Adrenal Gland, Right |
| | <u>204.0</u> | Liver | <u>.36</u> | Gonad, Left |
| | <u>36.0</u> | Spleen | <u>.46</u> | Gonad, Right |
| | <u>17.01</u> | Kidney, Left | | |
| | <u>17.84</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions: NVL

Lung: There is one microscopic granuloma present. The etiologic agent is not evident.

Liver: Cross sections of individual portal veins and central veins (perhaps 10-20% of total) reveal very marked dilatation. These vessels have very thick fibrous or fibromuscular media and adventitia.

Spleen: Congested.

Stomach: NVL

Intestine: NVL

Kidney: NVL

Adrenals: NVL

Thyroid: In a portion of one thyroid, the acini are devoid of colloid, but contain material morphologically suggestive of serum.

Bone Marrow: Grade II, 30%. NVL

Brain: NVL

4 June 1974

 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 45

(Female) Control

PM NO. 73/2229

GROSS FINDINGS: No gross lesions. One ascarid noted in small intestine.

| | | |
|-------------------------------------|---------------------------|---------------------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.60</u> Thyroid | <u>.77</u> Adrenal Gland, Left |
| | <u>84.0</u> Heart | <u>.62</u> Adrenal Gland, Right |
| | <u>253.0</u> Liver | <u>1.00</u> Gonad, Left |
| | <u>71.0</u> Spleen | <u>.79</u> Gonad, Right |
| | <u>26.78</u> Kidney, Left | |
| | <u>26.0</u> Kidney, Right | |

MICROSCOPIC:

Heart: Medial thickening of some muscular arteries.

Lung: No visible lesions (NVL).

Liver: NVL

Spleen: Red pulp congested.

Stomach: NVL

Intestine: Lymphoid hyperplasia of Peyers patches.

Kidneys: Mineral deposits (microcalculi) in tubules of renal pelvis.

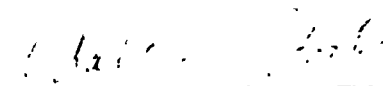
Adrenals: NVL

Thyroid, Parathyroid: NVL

Brain: NVL

Bone Marrow: Grade II, 40%. NVL

4 June 1974


 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 73(Male) RDX-High
10 mg/kg

PM NO. 73/2256

GROSS FINDINGS: Mesenteric lymph nodes hemorrhagic.ORGAN WEIGHTS:
(in grams)

| | | | |
|--------------|---------------|--------------|----------------------|
| <u>.85</u> | Thyroid | <u>.56</u> | Adrenal Gland, Left |
| <u>91.</u> | Heart | <u>.64</u> | Adrenal Gland, Right |
| <u>275.</u> | Liver | <u>11.97</u> | Gonad, Left |
| <u>89.</u> | Spleen | <u>12.11</u> | Gonad, Right |
| <u>32.58</u> | Kidney, Left | | |
| <u>32.46</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Anthracosis.

Liver: NVL

Spleen: NVL

Stomach: NVL

Intestines: Lymphoid hyperplasia of Peyer's patch.

Mesenteric Lymph Node: Congestion and edema.

Kidneys: Foci of mineralization in pelvis.


Adrenals: NVL.

Thyroid and Parathyroid: NVL

Bone Marrow: Grade II, 30%. Depletion of mature granulocytes.

Brain: NVL

6 June 1974


 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 74 (Male) RDX-High
10 mg/kg

PM NO. 73/2257

GROSS FINDINGS: No gross lesions.

| | | | | |
|------------------------------|--------------|---------------|--------------|----------------------|
| ORGAN WEIGHTS: (in grams) | <u>1.0</u> | Thyroid | <u>.70</u> | Adrenal Gland, Left |
| | <u>87.</u> | Heart | <u>.65</u> | Adrenal Gland, Right |
| | <u>415.</u> | Liver | <u>12.28</u> | Gonad, Left |
| | <u>95.</u> | Spleen | <u>11.38</u> | Gonad, Right |
| | <u>30.64</u> | Kidney, Left | | |
| | <u>32.17</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: NVL

Liver: Cells contain glycogen. NVL.

Spleen: Congestion, lymphocytic depletion. Necrosis of individual cells
in center of lymphocytic nodules.

Stomach: NVL

Small Intestine: Cells of lamina propria are principally plasma cells
rather than lymphocytes.

Kidneys: NVL

Adrenals: NVL

Thyroid: NVL

Bone Marrow: Grade II, 50%. Excess hemosiderin-filled macrophages.
No other lesions.

Brain: NVL

6 June 1974

Walter F. Loeb, V.M.D., Ph.D.

Dog No. 55 (Male) RDX-High
10 mg/kg

PM NO. 73/2259

GROSS FINDINGS: No gross lesions.

| | | | | |
|-------------------------------------|--------------|---------------|--------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>1.19</u> | Thyroid | <u>.81</u> | Adrenal Gland, Left |
| | <u>104.0</u> | Heart | <u>.88</u> | Adrenal Gland, Right |
| | <u>300.0</u> | Liver | <u>9.90</u> | Gonad, Left |
| | <u>132.0</u> | Spleen | <u>11.11</u> | Gonad, Right |
| | <u>36.21</u> | Kidney, Left | | |
| | <u>35.71</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Carbon filled macrophages around bronchioles; foamy macrophages in and around bronchioles. Some mucus in bronchioles.

Liver: NVL

Spleen: Congestion, depletion of lymphocytes (marked).

Stomach: NVL

Intestine: NVL

Kidney: NVL

Adrenal: NVL

Thyroid and Parathyroid: NVL

Bone Marrow: Grade II, 40%, NVL.

Brain: (Cerebrum, cerebellum, brain stem, meninges, choroid plexus) - NVL

6 June 1974

Walter F. Loeb, V.M.D., Ph.D.

Dog No. 76(Female) RDX-High
10 mg/kg

PM NO. 73/2258

GROSS FINDINGS: Small intestine - diffuse congestion, focal hemorrhage, moderate. Mesenteric node enlarged.

| | | | | |
|-------------------------------------|--------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.94</u> | Thyroid | <u>.81</u> | Adrenal Gland, Left |
| | <u>74.0</u> | Heart | <u>.85</u> | Adrenal Gland, Right |
| | <u>259.0</u> | Liver | <u>.61</u> | Gonad, Left |
| | <u>63.0</u> | Spleen | <u>.54</u> | Gonad, Right |
| | <u>19.23</u> | Kidney, Left | | |
| | <u>19.93</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Congestion; some interstitial cellular infiltration.

Liver: Multifocal lymphoreticular infiltrate unrelated to lobular architecture, slight.

Spleen: Congestion.

Stomach: Missing

Intestine: NVL

Lymph Node (Mesenteric?): Lymphoid hyperplasia and edema.

Kidney: Foci of mineralization in interstitium of renal medulla.

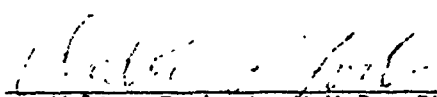
Adrenals: NVL

Thyroid: Diffuse C-cell hyperplasia, marked.

Bone Marrow: Grade II, 40%. Erythroid hyperplasia.

Brain: NVL

6 June 1974


 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 49 (Female) RDX-High
10 mg/kg

PM NO. 73/2253

GROSS FINDINGS: No gross lesions.

| | | |
|-------------------------------------|--------------------------|---------------------------------|
| <u>ORGAN WEIGHTS:</u> (in gram.) | <u>.59</u> Thyroid | <u>.64</u> Adrenal Gland, Left |
| | <u>84.</u> Heart | <u>.61</u> Adrenal Gland, Right |
| | <u>300.</u> Liver | <u>.67</u> Gonad, Left |
| | <u>28.</u> Spleen | <u>.73</u> Gonad, Right |
| | <u>20.</u> Kidney, Left | |
| | <u>20.</u> Kidney, Right | |

MICROSCOPIC:

Heart: Area of hyalinization (amyloid?) under endocardium of papillary muscle, left ventricle.

Lung: Congestion and edema.

Liver: Liver parenchyma cells filled with glycogen.

Spleen: No visible lesions (NVL).

Stomach: NVL

Intestine: NVL

Kidney: Mineralized deposits (microcalculi) in tubules of pelvis.


Adrenal: NVL

Thyroid and Parathyroid: NVL

Brain: NVL

Bone Marrow: Grade II, 35%. NVL

6 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 50 (Female) RDX-High
10 mg/kg

PM NO. 73/2254

GROSS FINDINGS: No gross lesions.

| | | | | |
|-------------------------------------|-------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.69</u> | Thyroid | <u>.61</u> | Adrenal Gland, Left |
| | <u>63.</u> | Heart | <u>.70</u> | Adrenal Gland, Right |
| | <u>225.</u> | Liver | <u>.44</u> | Gonad, Left |
| | <u>35.</u> | Spleen | <u>.36</u> | Gonad, Right |
| | <u>16.</u> | Kidney, Left | | |
| | <u>16.</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Edema, congestion.

Liver. Focal extramedullary hematopoiesis. Liver parenchyma cells filled with glycogen.

Spleen: NVL

Stomach: NVL

Intestine: NVL

Kidneys: Mineralized deposits (microcalculi) in tubules of renal pelvis

Adrenals: NVL

Thyroid: NVL. Parathyroid: One cyst (less than 1 mm diameter) present.

Brain: NVL

Bone Marrow: Grade II, 50%, NVL

6 June 1974

Walter F. Loeb
Walter F. Loeb, V.M.D., Ph.D.

Dog No. 69(Male) TNT-High
1 mg/kg

PM NO. 73/2262

GROSS FINDINGS: No gross lesions.ORGAN WEIGHTS:
(in grams).67 Thyroid.88 Adrenal Gland, Left87.0 Heart.64 Adrenal Gland, Right352.0 Liver9.68 Gonad, Left59.0 Spleen10.15 Gonad, Right25.56 Kidney, Left24.77 Kidney, RightMICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: NVL

Liver: Liver parenchyma cells filled with glycogen.

Spleen: NVL

Stomach: NVL

Intestine: NVL

Kidneys: NVL

Adrenals: NVL

Thyroid, Parathyroid: NVL

Brain: NVL

Bone Marrow: Grade II, 45%. NVL

6 June 1974



Walter F. Loeb, V.M.D., Ph.D.

Dog No. 70(Male) TNT-High
1 mg/kg

PM NO. 73/2263

GROSS FINDINGS: No gross lesions.ORGAN WEIGHTS:
(in grams)

| | | | |
|--------------|---------------|--------------|----------------------|
| <u>1.22</u> | Thyroid | <u>.58</u> | Adrenal Gland, Left |
| <u>90.0</u> | Heart | <u>.60</u> | Adrenal Gland, Right |
| <u>296.0</u> | Liver | <u>10.04</u> | Gonad, Left |
| <u>41.0</u> | Spleen | <u>11.60</u> | Gonad, Right |
| <u>25.23</u> | Kidney, Left | | |
| <u>24.79</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Alveolar walls are thickened by amorphous eosinophilic proteinaceous material and congestion.

Liver: NVL

Spleen: Congestion.

Stomach: NVL

Intestine and Pancreas: NVL

Kidneys: NVL


Adrenals: NVL

Thyroid, Parathyroid: NVL

Bone Marrow: Grade II, 40% NVL

Brain: NVL

6 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 71(Male) TNT-High
1 mg/kg

PM NO. 73/2264

GROSS FINDINGS: Parasite in small intestine.ORGAN WEIGHTS:
(in grams)

| | | | |
|--------------|---------------|--------------|----------------------|
| <u>1.08</u> | Thyroid | <u>.75</u> | Adrenal Gland, Left |
| <u>83.0</u> | Heart | <u>.78</u> | Adrenal Gland, Right |
| <u>313.0</u> | Liver | <u>11.20</u> | Gonad, Left |
| <u>81.0</u> | Spleen | <u>10.74</u> | Gonad, Right |
| <u>23.78</u> | Kidney, Left | | |
| <u>23.42</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesions (NVL).

Lung: Not collected at necropsy.

Liver: NVL

Spleen: NVL

Stomach: NVL

Intestine: NVL

Kidneys: Mineralized deposits (microcalculi) in pelvises of kidneys.

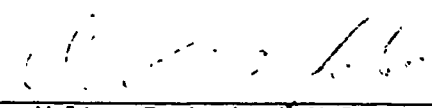
Adrenals: NVL

Thyroid, Parathyroid: NVL

Brain: NVL

Bone Marrow: Grade II, 40%. Normocellular bone marrow with hemosiderosis.

6 June 1974


 Walter F. Loeb, V.M.D., Ph.D.

Dog No. 46(Female) TNT-High
1 mg/kg

PM NO. 73/2255

GROSS FINDINGS: Mesenteric nodes are hemorrhagic.ORGAN WEIGHTS:
(in grams)

| | | | |
|--------------|---------------|------------|----------------------|
| <u>.75</u> | Thyroid | <u>.59</u> | Adrenal Gland, Left |
| <u>67.0</u> | Heart | <u>.51</u> | Adrenal Gland, Right |
| <u>262.0</u> | Liver | <u>.56</u> | Gonad, Left |
| <u>73.0</u> | Spleen | <u>.60</u> | Gonad, Right |
| <u>25.79</u> | Kidney, Left | | |
| <u>22.48</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesion (NVL).

Lung: NVL

Liver: NVL

Spleen: Congestion. Lymphoid depletion.

Stomach: NVL

Intestine: NVL

Mesenteric Lymph Node: Areas of lymphoid hyperplasia and areas of congestion.

Kidneys: NVL

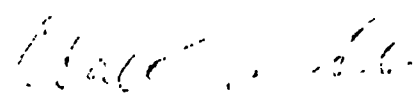
Adrenals: NVL

Thyroid: Diffuse C-cell hyperplasia, mild. Parathyroid: NVL

Bone Marrow: Grade II, 65% Increase in hemosiderin. Hyperplasia.

Brain: NVL

7 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 47 (Female) TNT-High
1 mg/kg

PM NO. 73/2260

GROSS FINDINGS: No gross lesions.

| | | | | |
|-------------------------------------|--------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> (in grams) | <u>.82</u> | Thyroid | <u>.58</u> | Adrenal Gland, Left |
| | <u>67.0</u> | Heart | <u>.61</u> | Adrenal Gland, Right |
| | <u>256.0</u> | Liver | <u>.70</u> | Gonad, Left |
| | <u>71.0</u> | Spleen | <u>.50</u> | Gonad, Right |
| | <u>20.36</u> | Kidney, Left | | |
| | <u>21.43</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesion (NVL).

Lung: NVL

Liver: NVL

Spleen: Congestion. Some of the lymphoid follicles are hypoplastic.

Stomach: NVL

Intestine: NVL

Kidneys: NVL

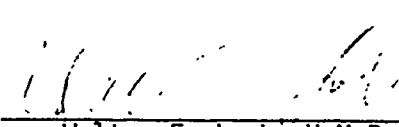
Adrenals: NVL

Thyroid, Parathyroid: NVL

Brain: NVL

Bone Marrow: Grade II, 30%. NVL

7 June 1974


Walter F. Loeb, V.M.D., Ph.D.

Dog No. 48 (Female) TNT-High
1 mg/kg

PM NO. 73/2261

GROSS FINDINGS: No gross lesions.

| | | | | |
|-----------------------|--------------|---------------|------------|----------------------|
| <u>ORGAN WEIGHTS:</u> | <u>.97</u> | Thyroid | <u>.54</u> | Adrenal Gland, Left |
| | <u>66.0</u> | Heart | <u>.59</u> | Adrenal Gland, Right |
| | <u>302.0</u> | Liver | <u>.62</u> | Gonad, Left |
| | <u>63.0</u> | Spleen | <u>.67</u> | Gonad, Right |
| | <u>23.0</u> | Kidney, Left | | |
| | <u>21.0</u> | Kidney, Right | | |

MICROSCOPIC:

Heart: No visible lesion (NVL).

Lung: Two minute granulomas containing isotropic pigment.

Liver: Liver cells are swollen with finely vacuolated cytoplasm, probably glycogen. Kupffer cells contain bilirubin.

Spleen: Congestion. Bile pigment in macrophages.

Stomach: NVL

Intestine: Plasma cells and eosinophils very abundant in lamina propria.

Kidney: Excessive protein in Bowman's spaces. Very minute mineral deposits in loops of Henle.

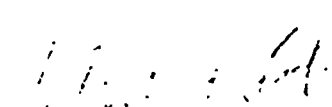
Adrenals: NVL

Thyroid: NVL

Bone Marrow: Grade II, 40% Excess hemosiderin-filled macrophages. Erythroid hyperplasia.

Brain: Some vacuolation of hippocampus.

7 June 1974


Walter F. Loeb, V.M.D., Ph.D.